

8033-36

4/17/2009

1 of 30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

APR 17 2009

Mr. John J. Wrubel
Regulatory Affairs Director
Nippon Soda Co., Ltd.
c/o Nisso America Inc.
45 Broadway, Suite 2120
New York, NY 10006

RE: Notification to add new pest to the ASSAIL 30 SG Insecticide label and to correct Crop Grouping Description
EPA Registration Number: 8033-36
Date of Submission: February 11, 2009

Dear Mr. Wrubel:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated, for the product, February 11, 2009, ASSAIL 30 SG Insecticide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

20230

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



EPA

United States
Environmental Protection Agency
Washington, DC 20460

- Registration
- Amendment
- Other:

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 8033-36	2. EPA Product Manager V. Eagle / A. Abramovitch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ASSAIL 30 SG Insecticide	PM# Team 1	
5. Name and Address of Applicant (Include ZIP Code) Nippon Soda Co., Ltd. c/o Nisso America Inc. 45 Broadway, Suite 2120 New York, NY 10006 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ APR 17 2009 Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
NOTIFICATION of revised label text as per PR 98-10: Inclusion of additional non-public health pests and correction of crop grouping for cucurbits.
NO FEE REQUIRED.
 This notification is consistent with the provisions of PR Notice 98-10, and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR notices 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
*Certification must be submitted				<input type="checkbox"/> Other (laminated bag)	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container Including but not limited to 32 oz		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		
			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)					
Name John J. Wrubel		Title Regulatory Affairs Director		Telephone No. (Include Area Code) 212-490-0351	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Affairs Director			
4. Typed Name John J. Wrubel		5. Date 2-11-09			



NISSO AMERICA INC.
45 BROADWAY, SUITE 2120
NEW YORK, NY 10006

PHONE: (212) 490-0350

FAX: (212) 972-9361

February 11, 2009

Dr. Akiva Abramovitch
PM Team 1, OPP/RD/IRB [NOTIF]
US Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, VA 22202

RE: NOTIFICATION to Add New Pests to the ASSAIL 30 SG Insecticide Label and to Correct
Crop Grouping Description;
NON-PRIA ACTION
EPA Reg. No. 8033-36

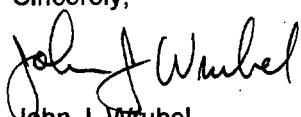
Dear Dr. Abramovitch:

Nippon Soda Co., Ltd. c/o Nisso America Inc. (Nisso) wishes to amend the ASSAIL 30 SG
Insecticide label (EPA Reg. No. 8033-36) by including new non-public health pests and correcting
the crop grouping description for cucurbits (Crop Group 9). Since the proposed change includes
the addition of only non-public health pests, no efficacy data are required to be submitted and this
change may be accomplished via the notification process as per PR Notice 98-10.

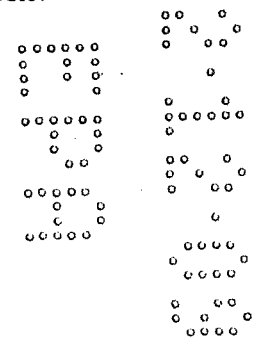
In support of this notification I am enclosing a Notification Form (Form 8570-1), a revised label
with changes highlighted in "red", a clean copy of the revised label, and the current stamp-
approved label for comparison purposes. I have also included five loose copies of the label for
your convenience.

Thank you for processing this notification.

Please let me know if you need any further information.

Sincerely,

John J. Wrubel
Regulatory Affairs Director

Encls.



40230

GROUP 4A INSECTICIDE



ASSAIL[®] 30 SG Insecticide

For Agricultural Use Only

ACTIVE INGREDIENT: Acetamiprid, (E)- N¹ -[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methyl acetamidine..... 30% by wt.
OTHER INGREDIENTS: 70% by wt.

EPA Reg. No. 8033-36

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label find someone to explain it to you in detail.)

EMERGENCY TELEPHONE NUMBERS:

CHEMTREC: (800) 424-9300

MEDICAL: (303) 623-5716 Rocky Mountain Poison Control Center

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.
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. Call a poison control center or doctor for treatment advice.
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 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 mouth-to-mouth if possible. 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.

NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

Net Contents: _____ ounces Batch No. _____

NOTIFICATION

APR 17 2009

Nippon Soda Co., Ltd.
c/o Nisso America Inc.
45 Broadway, Suite 2120
New York, NY 10006

50030

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS (and DOMESTIC ANIMALS)

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children and domestic animals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Wear protective eyewear. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturers instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treated area. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not contaminate water used for irrigation or domestic purposes.

SPRAY DRIFT

Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift on to non-target areas. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions. For aerial application, select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions. The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from air stream as much as possible and by avoiding excessive spray boom pressure.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory below.

AERIAL DRIFT REDUCTION ADVISORY

[This section is advisory in nature and does not supersede the mandatory label requirements].

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply MEDIUM droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Small droplets are more prone to spray drift and can be minimized by several factors including orienting nozzles away from the air stream. Orienting nozzles so that the spray released parallel to the airstream produces larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

W0030

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator should compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in any manner inconsistent with its labeling.
Read entire label before using this product.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 intervals. 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.

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 coveralls, waterproof gloves and shoes plus socks.

STORAGE AND DISPOSAL

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

STORAGE

Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 115° F (46° C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

PESTICIDE DISPOSAL

Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available

COMPATIBILITY

ASSAIL® 30 SG Insecticide, when diluted with an equal volume of water, is physically compatible with a wide range of commonly used spray products, but the full range of compatibilities under local conditions is not known. Therefore, it is essential that before using ASSAIL 30 SG Insecticide in any tank mixture the compatibility of the mixture be established. Add a small amount of this pr to an equal volume of water in a small container and then add the other pesticide or spray product and mix thoroughly. DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GREASE. FOR BEST RESULTS, SPRAY MIXTURES SHOULD BE USED IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

DIRECTIONS FOR CHEMIGATION

Instructions

For chemigation use only on cranberries and on potatoes after foliage has emerged and only through overhead sprinkler irrigation systems.

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Apply this product only through overhead sprinkler irrigation systems including center pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems after potato foliage has emerged. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The overhead sprinkler chemigation system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed for materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) of the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Application Instructions

Observe the requirements in the System Requirements section above. Apply ASSAIL 30 SG Insecticide only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area. Use of end guns which deliver uneven distribution of water is not recommended. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable insect control may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. ASSAIL 30 SG Insecticide may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

Spray Preparation

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a solution of ASSAIL 30 SG Insecticide in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of ASSAIL 30 SG Insecticide and then the remaining volume of water.

Sprinkler Irrigation – Notes

Observe all System Requirements and Application Instructions above. Set sprinkler system to deliver a maximum of 0.2 inch of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the solution of ASSAIL 30 SG Insecticide into the irrigation water line so as to deliver the desired rate per acre. The solution of ASSAIL 30 SG Insecticide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. Retention of ASSAIL 30 SG on foliage is necessary for optimum activity. Do not apply when wind speed favors drift beyond the area intended for treatment. Where sprinkler distributed patterns do not overlap sufficiently, unacceptable insect control may result.

DIRECTIONS FOR AERIAL OR GROUND SPRAY APPLICATION

APPLICATION TIMING

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, Professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

INFORMATION

ASSAIL 30 SG Insecticide is a 30% soluble granule for the control of many sucking and chewing insects on the crops listed in this label. The active ingredient in ASSAIL 30 SG Insecticide is acetamiprid, a neonicotinoid insecticide that controls target insects through contact and ingestion. ASSAIL 30 SG Insecticide is rapidly absorbed by the plant tissue and quickly moves via systemic translaminar activity to protect the entire leaf. However, thorough spray coverage is essential for optimal performance. ASSAIL 30 SG Insecticide is rainfast once the spray solution has dried.

MIXING INSTRUCTIONS

Mixing and Application Instructions for ASSAIL 30 SG Insecticide

ASSAIL 30 SG Insecticide is a soluble granule formulation that readily disperses in water to form a spray mixture, which may be applied by ground or air.

1. Plan ahead. Prepare only enough spray mixture as can be applied on the day of mixing.
2. Fill tank $\frac{1}{4}$ - $\frac{1}{2}$ full with the required amount of total spray volume of water.
3. Begin agitation and add product.
4. Continue to fill tank.
5. Allow mixing in tank for 2 minutes after filling or until thoroughly mixed before applying.
6. Maintain continuous agitation during mixing and application to assure uniform suspension. If mixture sits without agitation for extended periods, agitate the mixture for at least 10 minutes before use.
7. Equip spray system with a 50-mesh inline filter, which will protect nozzles that are typically used. Nozzles may also be equipped with 50-mesh nozzle filters or 25 to 50 mesh (equivalent) slotted nozzle filters.
8. ASSAIL 30 SG Insecticide is unstable in water pH below 4 and above 9. If necessary, buffer water to obtain optimum pH range.

Special Instructions for Tank Mixing ASSAIL 30 SG Insecticide

When tank mixing ASSAIL 30 SG Insecticide with other products, introduce the products into the tank in the following order: (1) water soluble packets (2) wettable powders (3) water dispersible granules (such as ASSAIL 30 SG Insecticide) (4) flowable liquids (5) emulsifiable concentrates and (6) adjuvants and/or oils (do not use stickers). Always allow each product to fully disperse before adding the next product.

APPLICATION INSTRUCTIONS

ROW CROPS

Apply a minimum finished spray volume of 5 gallons per acre by air or 15 gallons per acre by ground unless otherwise directed under crop specific directions. For best results, it is important to obtain thorough and uniform spray coverage of the plant. For aerial application, select nozzles and pressure that deliver **MEDIUM** spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572.

The use of spray adjuvants, such as high quality non-ionic or silicone surfactants or methylated seed oils is recommended to enhance coverage and plant uptake and may improve pest control on certain crops. Please see specific crop use directions. The addition of an adjuvant is recommended for all applications made to vegetables (except legumes) and to cotton when controlling whiteflies. The use of stickers is not recommended. Some adjuvants can cause adverse effects on certain crops, such as spotting or burn to fruit or foliage. Select an adjuvant that will be safe for the target crop. Follow adjuvant use directions. Consult your local Extension Service, Crop Advisor or Nippon Soda Co., Ltd. representative for additional information. Use higher dosage rates for heavy infestations or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation. For foliar banded applications, determine the amount of chemical to use per acre by dividing the band width by the row width and multiplying by the appropriate broadcast rate.

To clean the sprayer after use, drain and flush with water. Use rinsate on crop according to label instructions or dispose of in an approved manner (See STORAGE AND DISPOSAL).

ORCHARD AND VINE CROPS

To achieve optimum pest control, it is important to obtain thorough and uniform spray coverage. Choose a finished spray volume appropriate for the size of tree or vine and amount of foliage which will provide thorough coverage throughout the canopy. For certain pests, also follow recommendations listed under crop specific directions. For aerial application, select nozzles and pressure that deliver **MEDIUM** spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Aerial applications may not provide as thorough coverage as ground applications.

The use of spray adjuvants, such as high quality non-ionic surfactants, methylated seed or horticultural oils, is recommended to enhance coverage and plant uptake and may improve pest control. The addition of an adjuvant is recommended for all applications to pome fruit when controlling codling moth, oriental fruit moth, and San Jose scale, and on grapes for control of mealybug. The use of stickers is not recommended. Some adjuvants can cause adverse effects, such as spotting or burn to fruit or foliage. Select an adjuvant that will be safe for the target crop. Follow adjuvant use directions. Consult your local Extension Service, Crop Advisor or Nippon Soda representative for additional information.

Use higher dosage rates for heavy infestations or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation.

To clean the sprayer after use, drain and flush with water. Use rinsate on crop according to label instructions or dispose of in an approved manner (See STORAGE AND DISPOSAL).

INTEGRATED PEST MANAGEMENT (IPM) USE OF THIS PRODUCT

ASSAIL 30 SG Insecticide has ovicidal, larvicidal, and adulticidal activity against many pests which can be effectively utilized in IPM programs. ASSAIL 30 SG Insecticide has been shown to leave substantial populations of many beneficial insects and spiders after use. The lower rates allow for maximum beneficial survival and faster rebound of beneficial populations. Control of important pests coupled with retention of beneficial insects and spiders can offer significant benefits to those producers utilizing integrated pest management programs.

RESISTANCE MANAGEMENT

Acetamiprid is the active ingredient in ASSAIL 30 SG Insecticide. It is a member of a class of chemicals known as neonicotinoids and within the mode of action Group 4A. Rotating ASSAIL 30 SG Insecticide with insecticides of a different mode of action (other than Group 4A insecticides) may delay or prevent development of resistance and cross-resistance to ASSAIL and other Group 4A insecticides. Avoid making more than two (2) consecutive applications of ASSAIL 30 SG Insecticide before rotating to an alternative mode of action insecticide. Foliar applications of ASSAIL 30 SG Insecticide should be avoided on crops treated with a Group 4A seed treatment or soil-applied insecticide until a foliar application of a non-Group 4A insecticide (insecticide with a different mode of action) has been applied between these applications. The use of

90830

ASSAIL 30 SG Insecticide should conform to the resistance management guidelines established in your area. Consult your agricultural advisor, PCA, university or extension personnel for recommended pest and resistance management practices for your area. Use recommended IPM practices in your pest management system. Use of rates below the minimum rate listed for each particular insect pest may enhance the development of resistance and should be avoided.

RATE CONVERSION CHART FOR ALL OF THE FOLLOWING CROP USE DIRECTIONS

OUNCES of ASSAIL 30 SG INSECTICIDE PER ACRE	TREATED ACRES PER 32 oz PACKAGE of ASSAIL 30 SG INSECTICIDE	POUNDS of A.I. PER ACRE
1.5	21.3	0.028
2.0	16.0	0.038
2.5	12.8	0.047
3.0	10.7	0.056
4.0	8.0	0.075
5.0	6.4	0.094
5.3	6.0	0.100
5.5	5.8	0.103
7.0	4.6	0.130
8.0	4.0	0.150
13.3	2.4	0.250

COTTON

SPRAY VOLUME FOR COTTON

ASSAIL 30 SG Insecticide should be applied in a minimum finished spray volume of 5 gallons per acre by aircraft or by ground equipment. Under extreme pest populations or dense foliage, use a minimum spray volume of 10 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
COTTON FOR USE IN California Florida Georgia North Carolina South Carolina and Virginia ONLY	Aphids	0.028 – 0.047	1.5 – 2.5	<p>Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates.</p> <p>Begin applications when treatment thresholds have been reached.</p> <p>Thorough coverage is important to obtain optimum control.</p>
	Whitefly Sweet Potato Silver Leaf	0.075 - 0.1	4.0 – 5.3	<p>Begin applications when whitefly adults appear prior to development of nymphs. Do not wait until heavy populations have become established. For whitefly control, ASSAIL 30 SG Insecticide should be applied in a minimum finished spray volume of 5 gallons per acre by aircraft and 15 gallons per acre by ground equipment. Make applications on a minimum 7 day interval as long as pest pressure continues.</p> <p>Use the high rates under heavy pressure.</p> <p>Whiteflies have shown a tendency to develop resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.</p> <p>After cutout, foliar absorption of Assail may be affected, reducing aphid and whitefly control. After cutout, it is recommended to increase the use of penetrating adjuvants (including oils) to enhance contact and absorption, and/or consider tank mixes with knockdown insecticides such as Bifenture™, Acephate, PennCap-M®, etc.</p>
	Plantbugs (Lygus spp.)	0.047 – 0.1	2.5 – 5.3	<p>Begin applications when treatment thresholds have been reached.</p> <p>Some species of plantbugs may be less susceptible and may only be suppressed by applications of this product. Two applications at 7 to 10 day intervals may be required to achieve control.</p> <p>Thorough coverage is important to obtain optimum control.</p>
	Fleahopper	0.028 - 0.047	1.5 – 2.5	<p>Begin applications when treatment thresholds have been reached.</p> <p>Thorough coverage is important to obtain optimum control.</p>
	Thrips	0.047 – 0.075	2.5 – 4.0	<p>Begin applications when thrips damage is first observed or anticipated.</p> <p>Thorough coverage is important. Use of an adjuvant may improve coverage and control.</p> <p>Use the high rates under heavy pest pressure.</p>
FOR USE AS AN OVICIDE ON COTTON	Budworm Bollworm	0.028 - 0.047	1.5 – 2.5	<p>Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Optimal ovicidal activity when applied within 24 hours of egg lay.</p>
	Whitefly	0.075 - 0.1	4.0 – 5.3	<p>Applications made for ovicidal control will not provide sustained control of migrating adults.</p>

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RESTRICTIONS AND PRECAUTIONS: Cotton – For Use in CA, FL, GA, NC, SC, and VA Only

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 28 days before harvest (PHI = 28 days).
- Do not exceed a total of 0.4 lbs. active ingredient (21.3 ozs product) per acre per growing season.
- There are no rotational crop plantback restrictions for this product.

LEAFY VEGETABLES (within Crop Group 4)

SPRAY VOLUME FOR LEAFY VEGETABLES (within Crop Group 4): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
LEAFY VEGETABLES (within Crop Group 4) Amaranth, Arrugula, Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible leaved, garland), Corn Salad, Cress (garden, upland), Dandelion, Dock, Endive, Florence Fennel, Lettuce (head, leaf), Orach, Parsley, Purslane (garden, winter), Radicchio, Rhubarb, Spinach (leaf, vine, New Zealand), Swiss Chard	Aphids	0.038 – 0.075	2.0 – 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present or if there are difficult to control species such as lettuce aphid, red aphid, foxglove aphid, etc., use the maximum rate. Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
	Whitefly Sweet Potato Silver Leaf Greenhouse (For Field Use Only)	0.056 - 0.075	3.0 – 4.0	Begin applications when whitefly adults appear prior to development of nymphs. Do not wait until heavy populations have become established. Use of an adjuvant is recommended to improve coverage and control. Make applications on a minimum 7 day interval as long as pest pressure continues. Use the high rates under heavy pressure. Whiteflies have shown a tendency to develop resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.

RESTRICTIONS AND PRECAUTIONS: Leafy Vegetables (within Crop Group 4)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 5 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.375 lbs. acetamiprid active ingredient (20.0 ozs of ASSAIL 30 SG product) per acre per growing season including any pre-transplant applications of acetamiprid (maximum pre-transplant application rate of acetamiprid is 0.15 lb ai/A)
- There are no rotational crop plantback restrictions for this product.

COLE CROPS (within Crop Group 5)

SPRAY VOLUME FOR COLE CROPS (within Crop Group 5): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
COLE CROPS (within Crop Group 5) Broccoli, Chinese Broccoli (gai lon), broccoli raab (rapini), Brussel Sprouts, Cabbage, Chinese Cabbage (bok choy, napa), Chinese Mustard Cabbage (gai choy), Cavalo broccolli Cauliflower, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens	Aphids	0.038 - 0.075	2.0 - 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates. Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
	Whitefly Sweet Potato Silver Leaf Greenhouse (for field use only)	0.047 - 0.075	2.5 - 4.0	Begin applications when whitefly adults appear prior to development of nymphs. Do not wait until heavy populations have become established. Use of an adjuvant is recommended to improve coverage and control. Make applications on a minimum 7 day interval as long as pest pressure continues. Use the high rates under heavy pressure. Whiteflies have shown a tendency to develop resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.
	Thrips	0.075	4.0	Begin applications as soon as thrips are seen in the crop and continue applications as needed. Thrips will seek sheltered parts of the plant so using nozzles that produce a fine spray with sufficient water for thorough coverage is essential for good control. Applications during the "cupping" stage of cabbage may be especially helpful in preventing injury. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.
	Diamondback Moth (suppression)	0.075	4.0	Begin applications as soon as moths begin laying eggs and continue as needed. Use in a program as a resistance management tool.
	Swede Midge	0.075	4.0	Apply as a preventative spray to control the first generation if swede midge has been found in your area. Preventative applications will decrease the chance of quick population increases later in the season.

RESTRICTIONS AND PRECAUTIONS: Cole Crops (within Crop Group 5)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 5 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.375 lbs. acetamiprid active ingredient (20.0 ozs of ASSAIL 30 SG product) per acre per growing season including any pre-transplant applications of acetamiprid (maximum pre-transplant application rate of acetamiprid is 0.15 lb ai/A)
- There are no rotational crop plantback restrictions for this product.

FRUITING VEGETABLES (within Crop Group 8)

SPRAY VOLUME FOR FRUITING VEGETABLES (within Crop Group 8): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
FRUITING VEGETABLES (within Crop Group 8) Eggplant, Groundcherry, Pepino, Pepper (bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato	Aphids	0.038 – 0.075	2.0 – 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species or if there are difficult to control species present, use the maximum rate. Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control.
	Colorado Potato Beetle	0.028 - 0.047	1.5 – 2.5	
	Whitefly Sweet Potato Silver Leaf Greenhouse (for field use only)	0.047 - 0.075	2.5 – 4.0	Begin applications when whitefly adults appear prior to development of nymphs. Do not wait until heavy populations have become established. Use of an adjuvant is recommended to improve coverage and control. Make applications on a minimum 7 day interval as long as pest pressure continues. Use the high rates under heavy pressure. Whiteflies have shown a tendency to develop resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.
	Pepper Weevil	0.047 - 0.075	2.5 - 4.0	Begin applications when pepper weevil adults first appear and flower buds and/or fruit are present. Apply on a 7 to 14 day interval. Use a 7-day interval under heavy insect pressure.
	Thrips	0.075	4.0	Begin applications as soon as thrips are seen in the crop and continue applications as needed. Thorough coverage of the plant is important to obtain optimum control. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.

RESTRICTIONS AND PRECAUTIONS: Fruiting Vegetables (within Crop Group 8)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.3 lbs. acetamiprid active ingredient (16.0 ozs of ASSAIL 30 SG product) per acre per growing season including any pre-transplant applications of acetamiprid (maximum pre-transplant application rate of acetamiprid is 0.15 lb ai/A).
- There are no rotational crop plantback restrictions for this product.

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CITRUS (within Crop Group 10)

SPRAY VOLUME FOR CITRUS (within Crop Group 10): For mature trees, apply in a minimum finished spray volume of 100 gallons per acre by ground or a minimum of 20 gallons per acre by air. Ground applications are recommended for optimal control.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
CITRUS (within Crop Group 10) Calamondin, Citrus citron, Citrus hybrids (chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sour, sweet), Pummelo, Satsuma mandarin	Aphids	0.047 – 0.103	2.5 – 5.5	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates.
	Citrus Thrips	0.075 - 0.13	4.0 – 7.0	Use the higher rates under heavy insect pressure.
	Citrus Leafminer			Begin applications when treatment thresholds have been reached.
	Citrus Mealybug			Thorough coverage is important to obtain optimum control.
	Caribbean Black Scale			
	Glassywinged sharpshooter			
	Citricola Scale Red Scale	0.15 - 0.25	8.0 – 13.3	Begin applications when treatment thresholds have been reached. Treat for citricola scale when crawlers are present in the spring and fall. Use of an approved horticultural oil will enhance control. Adjust gallonage to tree size to insure coverage of scale on wood and foliage. Optimum gallonage for Red Scale control is 750 - 1500 GPA.
	Katydid	0.11 – 0.19	6.0 – 10.0	Apply at petal fall or when katydids are first observed. Repeat in 2 to 3 weeks. Thorough coverage is important to obtain optimum control.
	Asian Citrus Psyllid	0.13 – 0.25	6.9 – 13.3	Begin applications as pest populations begin to appear. Thorough coverage is necessary for optimum control. The addition of a spray adjuvant, such as silicone-based surfactants or horticultural oil may enhance coverage and improve pest control. Scout groves regularly and retreat if needed. Use higher rates under heavy insect pressure.

RESTRICTIONS AND PRECAUTIONS: Citrus (within Crop Group 10)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 5 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.55 lbs. active ingredient (29.3 ozs product) per acre per growing season.

POME FRUIT (within Crop Group 11)

SPRAY VOLUME FOR POME FRUIT (within Crop Group 11): Apply in a minimum finished spray volume of at least 50 gallons per acre by ground or a minimum of 10 gallons per acre by air. Ground applications are recommended for optimal control.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS	GENERAL DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE		
POME FRUIT (within Crop Group 11): Apple, Crabapple, Loquat, Mayhaw, Quince, Pear, Oriental pear	Aphids	0.047 – 0.075	2.5 – 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates. Woolly apple aphid may require use of higher rates and repeat applications.	<p>Begin applications before insect populations reach damaging levels.</p> <p>Degree day models are good indicators that can be used to determine application timing and interval for leafminer, codling moth, and certain other insect pests.</p>
	Tentiform Leafminer	0.047	2.5	Application(s) for leafminer control must be made before larvae reach the tissue feeding stage.	<p>Thorough spray coverage is important to obtain optimum and extended control.</p>
	Leafhoppers	0.047 - 0.075	2.5 – 4.0		
	Codling Moth	0.075 - 0.15	4.0 – 8.0	The use of horticultural oil in combination with ASSAIL 30 SG Insecticide has been shown to enhance control of codling moth.	<p>Residual control of labeled pests varies by rate. Use the higher rate for optimal and extended control.</p>
	Oriental Fruit Moth Lesser Appleworm	0.094 – 0.15	5.0 – 8.0		<p>The use of spray adjuvants, such as horticultural oil or high quality non-ionic surfactants, enhances coverage and may improve pest control.</p>
	Mealybug Psylla Mullein Plant Bug (Campylomma)	0.075 – 0.15	4.0 – 8.0	<p>Summer applications may not effectively control Psylla.</p> <p>Application to prevent fruit damage from Mullein Plant Bug should be made at pink bud through bloom, prior to petal fall. Do not apply this product when bees are actively visiting the area to be treated.</p>	<p>Complete sprays (every row) are recommended.</p> <p>Use of horticultural oil with ASSAIL 30 SG Insecticide may aid in managing mites, particularly when conditions for mite buildup are favorable. Also</p>

	European Apple Sawfly Japanese Beetle	0.094 – 0.15	5.0 – 8.0	For Japanese Beetle: adult beetles will stop feeding after application and mortality will occur within a few days.	consider the mite population history and the use of other products in the orchard that may predispose a mite population increase.
	Apple Maggot Plum Curculio San Jose Scale (suppression)	0.15	8.0	<p>For Apple Maggot, use of baited spheres is a good indicator that can be used to determine spray timing.</p> <p>For optimum control of Plum Curculio, an early petal fall application is necessary followed by one or two cover sprays during the egg-laying period.</p> <p>For best results against San Jose Scale time applications for the crawler stage.</p> <p>The addition of horticultural oil is recommended for improved performance against San Jose Scale</p>	Consult your local Extension Service, Crop Advisor or Nippon Soda Co., Ltd. representative for additional information.
	Dogwood Borer	0.15	8.0	Apply spray to tree trunks. Time first application, after moth emergence, to coincide with egg laying period. Make second application 14 to 21 days later.	

RESTRICTIONS AND PRECAUTIONS: Pome Fruit (within Crop Group 11)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 12 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.60 lbs. active ingredient (32.0 ozs product) per acre per growing season.

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GRAPES and other Climbing Vine Small Fruits (except Fuzzy Kiwifruit) (within Crop Sub-Group 13-07F)

SPRAY VOLUME FOR GRAPES and OTHER CLIMBING VINE SMALL FRUITS (EXCEPT FUZZY KIWIFRUIT) (within Crop Sub-Group 13-07F): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground. Ground applications are recommended for optimal control.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
<p>GRAPES and other climbing vine small fruits (except fuzzy kiwifruit) (within Crop Sub-Group 13-07F): Amur river grape; gooseberry, hardy kiwifruit, Maypop, schisandra berry, and cultivars, varieties, and/or hybrids of these.</p>	<p>Leafhoppers Including grape leafhopper and variegated leafhopper Grape cane girdler Glassywinged sharpshooter Aphids Mealybug (Grape, Obscure) Western Grapeleaf Skeletonizer</p> <p>EAST of Rocky Mountains Only Phylloxera (aerial form only) Banded Grape Bug Rose Chafer Japanese Beetle</p>	0.047	2.5	<p>Begin applications when treatment thresholds have been reached.</p> <p>Thorough coverage is important to obtain optimum control.</p> <p>For Mealybug control, apply ASSAIL 30 SG Insecticide as crawlers / nymphs become active. The addition of a spreader, methylated seed oil or crop oil will enhance control.</p> <p>For Western grapeleaf skeletonizer, apply ASSAIL 30 SG Insecticide as larvae are observed feeding on leaves. Apply sufficient water to provide thorough coverage of all surfaces.</p> <p>For Japanese Beetle: Adult beetles will stop feeding after application and mortality will occur within a few days.</p>

RESTRICTIONS AND PRECAUTIONS: Grapes and other climbing vine small fruits (except fuzzy kiwifruit) (within Crop Sub-Group 13-07F)

- Do not make more than 2 applications per season.
- Do not apply more than once every 14 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.1 lb. active ingredient (5.3 ozs product) per acre per growing season.

TUBEROUS AND CORM VEGETABLES (within Crop Sub-Group 1C) (Potato, Sweet Potato)

SPRAY VOLUME FOR TUBEROUS AND CORM VEGETABLES (within Crop Sub-Group 1C): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
TUBEROUS AND CORM VEGETABLES (within Crop Sub-Group 1C): Potato, Sweet Potato, Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Edible Canna, Cassava (Bitter and Sweet), Chayote (Root), Chufa, Dasheen, Ginger, Leren, Tanier, Tumeric, Yam Bean, True Yam	Aphids*	0.047 – 0.075	2.5 – 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates. Use higher rates under conditions of heavy pest pressure or dense foliage. Begin applications when pest treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. *For application via overhead sprinkler chemigation to emerged potato foliage, use a 4.0 ounce / Acre rate to control aphids and leafhoppers and a 2.5 – 4.0 ounce/Acre rate to control Colorado Potato Beetles. See the Directions for Chemigation section of the label for application details.
	Leafhoppers*	0.028 - 0.075	1.5. – 4.0	
	Colorado Potato Beetle*			
	Cucumber Beetle			
	Flea Beetle	0.028 – 0.047	1.5 – 2.5	
FOR USE AS AN OVICIDE	European Corn Borer	0.047 – 0.075	2.5 – 4.0	

RESTRICTIONS AND PRECAUTIONS: Tuberous and Corm Vegetables (within Crop Sub-Group 1C)

- Do not make a foliar ASSAIL 70 WP Insecticide application following a seed treatment application of acetamiprid in the same crop.
- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.3 lb. active ingredient (16 ozs product) per acre per growing season.
- There are no rotational crop plantback restrictions for this product.

TOBACCO

SPRAY VOLUME FOR TOBACCO: Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
TOBACCO	Flea Beetles Hornworms	0.047 – 0.075	2.5 – 4.0	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates. Begin applications when treatment thresholds have been reached.
	Aphids	0.028 – 0.075	1.5 – 4.0	
FOR USE AS AN OVICIDE	Budworm	0.047 – 0.075	2.5 – 4.0	Use the higher rates under conditions of heavy pest pressure. Thorough coverage is important to obtain optimum control.

RESTRICTIONS AND PRECAUTIONS: Tobacco

- Do not make more than 4 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.3 lb. active ingredient (16 ozs product) per acre per growing season.

STONE FRUIT (within Crop Group 12)

SPRAY VOLUME FOR STONE FRUIT (within Crop Group 12): Apply in a minimum finished spray volume of at least 10 gallons per acre by air or 50 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS	GENERAL DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30SG INSECTICIDE		
STONE FRUIT (within Crop Group 12): Apricot, Cherry (sweet, tart), Nectarine, Peach, Plum (chickasaw, damson, Japanese), Plumcot, Prune (fresh)	Aphids	0.047 – 0.10	2.5 - 5.3	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rates.	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Complete sprays (every row) are recommended. Residual control of labeled pests varies by rate. Use higher rates for optimal and extended control. The use of spray adjuvants, such as silicone based surfactants or horticultural oils, may enhance coverage and improve pest control. Use of pheromone traps in conjunction with degree days are good indicators that can be used to determine spray timings. Consult your local Extension Service, Crop Advisor or Nippon Soda Co., Ltd. representative for additional information.
	Leafhoppers				
	Glassywinged sharpshooter	0.075 - 0.15	4.0 – 8.0		
	Oriental Fruit Moth Peach Twig Borer Plum Curculio Cat-facing insects (such as tarnished plant bug and stinkbug)	0.10 – 0.15	5.3 – 8.0	For control of Oriental Fruit Moth and Peach Twig Borer, make a delayed dormant application with oil prior to bud break, and at moth flights using appropriate degree day models. For optimum control of Plum Curculio, an early petal fall application is necessary followed by one or two cover sprays during the egg-laying period. Follow local recommendations for subsequent generations. The addition of horticultural oil is recommended for improved performance.	
	Cherry Fruit Fly			0.10 - 0.15	
Black Cherry Fruit Fly					
Western Cherry Fruit Fly					

	<p>San Jose Scale</p> <p>Japanese Beetle</p> <p>Rose Chafer</p>	<p>0.10 – 0.15</p>	<p>5.3 – 8.0</p>	<p>For San Jose Scale, apply with a horticultural oil as a dormant/delayed dormant application and time in-season applications for the crawler stage.</p> <p>The addition of horticultural oil for crawler stage applications may improve performance against San Jose Scale. Consult local recommendations regarding the use of oil.</p> <p>For Japanese Beetle: adult beetles will stop feeding after application and mortality will occur within a few days.</p>	
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RESTRICTIONS AND PRECAUTIONS: Stone Fruit (within Crop Group 12)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 10 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.6 lb. active ingredient (32.0 ozs product) per acre per growing season.

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CUCURBITS (within Crop Group 9)

SPRAY VOLUME FOR CUCURBITS (within Crop Group 9): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30SG INSECTICIDE	
CUCURBITS (within Crop Group 9): Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible), <i>Mormodica</i> spp., Muskmelon (hybrid and/or cultivars of <i>Cucumis melo</i> including true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon)), Pumpkin, Squash (summer and winter), Watermelon	Cucumber Beetle Spotted Striped Western Striped Melonworm Pickleworm	0.047 – 0.10	2.5 – 5.3	For Cucumber Beetles: adult beetles will stop feeding after application and mortality will occur within a few days. For Melonworm: Begin applications at first sign of foliar feeding and/or when larvae are present in the field. For Pickleworm: Begin applications at first bloom and continue as needed. The use of spray adjuvants, such as silicone based surfactants or crop oils, may enhance coverage and improve pest control.
	Squash Bug Squash Vine Borer	0.10	5.3	Applications for Squash Bug are most effective against newly laid eggs and nymphs.
	Aphids Leafhoppers	0.047 - 0.075	2.5 – 4.0	Aphid and Leafhopper species may differ in susceptibility to this product. If you are unsure of the species present and its susceptibility, use the higher rates.
	Whitefly Sweet Potato Silver Leaf	0.047 – 0.10	2.5 – 5.3	Begin applications when whitefly adults appear, prior to development of nymphs. Do not wait until heavy populations have become established. Make applications on a minimum 5 - 7 day interval as long as pest pressure continues. Use the high rates under heavy pest pressure. Whiteflies have shown a tendency to develop insecticide resistance. For resistance management purposes, alternating applications of different chemical classes reduces the potential for resistance development.

RESTRICTIONS AND PRECAUTIONS: Cucurbits (within Crop Group 9)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 5 applications per season.
- Do not apply more than once every 5 days.
- Do not apply less than 0 days before harvest (PHI = 0 days).
- Do not exceed a total of 0.5 lb. acetamiprid active ingredient (26.5 ozs of ASSAIL 30 SG product) per acre per growing season including any pre-transplant applications of acetamiprid (maximum pre-transplant application rate of acetamiprid is 0.15 lb ai/A).

TREE NUTS (within Crop Group 14) (including Pistachio)

SPRAY VOLUME FOR TREE NUTS (within Crop Group 14) (including Pistachio): Apply in a minimum finished spray volume of 10 gallons per acre by air or 50 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS	GENERAL DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30SG INSECTICIDE		
TREE NUTS (within Crop Group 14) (including pistachio): Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia (bush nut), Pecan, Pistachio, Walnut (black and English (Persian))	-Aphids -Leafhoppers	0.047 – 0.18	2.5 – 9.6	Aphid species may differ in susceptibility to this product. If you are unsure of the aphid species present and its susceptibility, use the higher rate. Use the higher rates for Black Pecan Aphid. On large mature trees use of the higher rate may be necessary for adequate control at the top of the trees. Use of an appropriate adjuvant will improve coverage and control.	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Complete sprays (every row) are recommended. Use of pheromone traps in conjunction with degree days are good indicators that can be use to determine spray timings. Consult your local Extension Service, Crop Advisor or Nippon Soda Co., Ltd. representative for additional information.
	Glassywinged sharpshooter -Pecan Nut Casebearer	0.075 - 0.15	4.0 – 8.0		
	-Codling Moth -Oriental Fruit Moth -Peach Twig Borer -San Jose Scale -Hickory Shuckworm -Pecan Weevil- Red Humped Caterpillar -Filbertworm	0.10 - 0.18	5.3 – 9.6	Residual control varies by rate. Use the higher rate for extended control and on tall, mature trees with dense foliage. For control of Oriental Fruit Moth (OFM) and Peach Twig Borer (PTB), make a delayed dormant application with oil prior to bud break. For Codling Moth, OFM, Filbertworm, and PTB, make in-season applications at moth flights using appropriate degree day models. The addition of horticultural oil is recommended for improved performance. Consult local recommendations regarding the use of oil. For best results against San Jose Scale, apply as a dormant/delayed dormant application with oil, and time in-season applications for the crawler stage. For best results against Pecan Weevil use the highest rate.	
	-Walnut Husk Fly	0.12 – 0.15	6.4 – 8.0	Apply once gravid (egg producing) adult females are observed. Add a recommended rate of husk fly bait. If needed repeat application in 3 to 4 weeks.	

	-Gill's Mealybug	0.15	3.4	Apply as crawlers emerge, typically in early to mid-June. Apply with sufficient water to provide thorough coverage of all surfaces. Inclusion of a horticultural oil or penetrating adjuvant (no stickers) may enhance control.	
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RESTRICTIONS AND PRECAUTIONS: Tree Nuts (within Crop Group 14) (including pistachio)

- For any of the pests listed above, use the high rate under heavy pest pressure.
- Do not make more than 4 applications per season.
- Do not apply more than once every 14 days.
- Do not apply less than 14 days before harvest (PHI = 14 days).
- Do not exceed a total of 0.72 lb. active ingredient (38.4 ozs product) per acre per growing season.

**EDIBLE PODDED LEGUME VEGETABLES (within Crop Sub-Group 6A)
and SUCCULENT SHELLED PEAS AND BEANS (within Crop Sub-Group 6B)**

SPRAY VOLUME FOR EDIBLE PODDED LEGUME VEGETABLES (within Crop Sub-Group 6A) AND SUCCULENT SHELLED PEAS AND BEANS (within Crop Sub-Group 6B): Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
EDIBLE PODDED LEGUME VEGETABLES (within Crop Sub-Group 6A) and SUCCULENT SHELLED PEAS AND BEANS (within Crop Sub-Group 6B): Bean (<i>Phaseolus</i> spp.) (includes runner bean, snap bean, wax bean, lima bean(green)); Bean (<i>Vigna</i> spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean, blackeyed pea, cowpea, southern pea); Jackbean; Broad Bean (succulent); Pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea, English pea, garden pea, green pea); Soybean (immature seed); Sword Bean; and Pigeon Pea.	Aphids Leafhoppers Cucumber Beetles Bean Leaf Beetle Mexican Bean Beetle	0.047 – 0.1	2.5 – 5.3	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Aphid and Thrips species may differ in susceptibility to this product. If you are unsure of the aphid or thrips species present and its susceptibility, use the higher rates.
	Whitefly	0.075 – 0.1	4.0 – 5.3	
	Thrips	0.085 – 0.1	4.5 – 5.3	

RESTRICTIONS AND PRECAUTIONS: Edible podded legume vegetables (within Crop Sub-Group 6A) and succulent shelled peas and beans (within Crop Sub-Group 6B)

- Do not make more than 3 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.3 lb. active ingredient (16 ozs product) per acre per growing season.

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STRAWBERRIES AND OTHER LOW GROWING BERRIES (within Crop Sub-Group 13-07G)

SPRAY VOLUME FOR STRAWBERRIES AND OTHER LOW GROWING BERRIES (within Crop Sub-Group 13-07G): Apply in a minimum finished spray volume of 10 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
STRAWBERRIES AND OTHER LOW GROWING BERRIES (within Crop Sub-Group 13-07G): Bearberry; Bilberry; Lowbush Blueberry; Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry; and cultivars, varieties, and/or hybrids of these.	Blueberry Maggot Spanworm Cherry Fruitworm Cranberry Fruitworm Flea Beetle Japanese Beetle Oblique Banded Leaf Roller Plantbugs (<i>Lygus</i> spp.) Sap Beetles Thrips Whiteflies Fireworm (suppression) Gypsy Moth Sparganothis Fruitworm Cranberry Tipworm	0.075 – 0.13	4.0 – 6.9	Aphid and thrips species may differ in susceptibility to this product. If you are unsure of the species present and its susceptibility, use the higher rates. Begin applications when treatment thresholds have been reached. Use the higher rates under conditions of heavy pest pressure. Thorough coverage is important to obtain optimum control.
	Aphids Leafhoppers Spittlebug	0.035 – 0.075	1.9 – 4.0	

RESTRICTIONS AND PRECAUTIONS: STRAWBERRIES AND OTHER LOW GROWING BERRIES (within Crop Sub-Group 13-07G)

- Do not exceed a total of 13.8 oz. of ASSAIL 30 SG Insecticide (0.26 lb ai) / A during each growing season.
- Do not make more than 2 applications per growing season.
- Do not apply more than once every 7 days.
- Do not apply less than 1 day before harvest (PHI = 1 day).

BLUEBERRIES AND OTHER BUSH AND CANE BERRIES (within Crop Sub-Groups 13-07A and B)

SPRAY VOLUME FOR BLUEBERRIES AND OTHER BUSH AND CANE BERRIES: Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
BLUEBERRIES AND OTHER BUSH BERRIES (within Crop Sub-Group 13-07B): Aronia berry; blueberry, highbush and lowbush; buffalo currant; Chilean guava; currant, red and black; elderberry; European barberry; gooseberry; cranberry, highbush; edible honeysuckle; huckleberry; jostaberry; Juneberry; lingonberry; natie currant; salal; sea buckthorn; and cultivars, varieties, and/or hybrids of these. CANE BERRIES (within Crop Sub-Group 13-07A): Blackberry, Loganberry, Raspberry (black and red), wild raspberry, and cultivars, varieties, and/or hybrids of these.	Aphids Leafhoppers	0.047 – 0.1	2.5 – 5.3	Begin applications when treatment thresholds have been reached.
	Whitefly	0.075 – 0.1	4.0 – 5.3	Thorough coverage is important to obtain optimum control.
	Japanese Beetle Blueberry Maggot Sap Beetles Tarnished Plant Bug Strawberry Rootworm Cranberry Fruitworm Cherry Fruitworm Flea Beetle Spanworm Thrips Blueberry Gall Midge Western Raspberry Fruit Worm (adult)	0.085 – 0.1	4.5 – 5.3	Aphid and Thrips species may differ in susceptibility to this product. If you are unsure of the aphid or thrips species present and its susceptibility, use the higher rates.

RESTRICTIONS AND PRECAUTIONS: Blueberries and other Bush and Cane Berries (within Crop Sub-Groups 13-07A and B)

- Do not make more than 5 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 1 day before harvest (PHI = 1 day).
- Do not exceed a total of 0.5 lb. active ingredient (26.7 ozs product) per acre per growing season.

ONIONS AND OTHER BULB VEGETABLES (within Crop Group 3-07)

SPRAY VOLUME FOR ONIONS AND OTHER BULB VEGETABLES: Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

SITE	PEST	DOSAGE PER ACRE		SPECIFIC DIRECTIONS
		POUNDS ACTIVE	OUNCES ASSAIL 30 SG INSECTICIDE	
ONIONS AND OTHER BULB VEGETABLES (within Crop Group 3-07): Chives, fresh leaves; Chinese chives, fresh leaves; daylily bulbs, Elegans hosta, Fritillaria leaves and bulbs; bulb garlic; great headed bulb garlic, serpent bulb garlic; kurrat; lady's leek; leek; wild leek; lily bulb; Beltsville bunching onion; bulb onion; Chinese bulb onion; fresh onion; green onion; macrostem onion; pearl onion; potato bulb onion; treetops onion; Welsh onion tops; shallot bulb and fresh leaves; and cultivars, varieties, and/or hybrids of these.	Thrips	0.094 – 0.15	5.0 – 8.0	<p>Begin applications when treatment thresholds have been reached.</p> <p>Thorough coverage is important to obtain optimum control.</p> <p>Thrips species may differ in susceptibility to this product. If you are unsure of the thrips species present and its susceptibility, use the higher rates.</p> <p>The use of spray adjuvants, such as silicone-based surfactants or horticultural oils, may also enhance coverage and improve pest control.</p>

RESTRICTIONS AND PRECAUTIONS: Onions and Other Bulb Vegetables (within Crop Group 3-07)

- Do not make more than 4 applications per season.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).
- Do not exceed a total of 0.6 lb. acetamiprid active ingredient (32 ozs of ASSAIL 30 SG product) per acre per growing season including any pre-transplant applications of acetamiprid (maximum pre-transplant application rate of acetamiprid is 0.15 lb ai/A).

Conditions of Sale and Limitation of Warranty and Liability

The Directions for Use of this product must 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, resistant strains or other influencing factors in the use of the product, which are beyond the control of Nippon Soda Co., Ltd. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Nippon Soda Co., Ltd. and Seller harmless for any claims relating to such factors.

To the extent allowable by applicable law, Nippon Soda Co., Ltd. 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 Nippon Soda Co., Ltd., and Buyer and User assume the risk of any such use. TO THE EXTENT ALLOWABLE BY APPLICABLE LAW, NIPPON SODA CO., LTD. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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