



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Carrie Tackema
Cheminova Inc.
1700 Route 23, Suite 300
Wayne, NJ 07470

JUL 11 2008

Subject: Label Notifications for Pesticide Registration Notice 2007-4

Dear Ms. Tackema,

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated May 14, 2008 (and corrected labels sent June 11, 2008) for the following products:

Metsulfuron-methyl Technical	(EPA Registration Number 4787-50)
Tribenuron-methyl Technical	(EPA Registration Number 4787-53)
Nicosulfuron Technical	(EPA Registration Number 4787-54)
Thifensulfuron-methyl Technical	(EPA Registration Number 4787-56)
Accurate Herbicide	(EPA Registration Number 67760-68)
Nuance Herbicide	(EPA Registration Number 67760-73)
Nic-It Herbicide	(EPA Registration Number 67760-74)
Accurate Extra Herbicide	(EPA Registration Number 67760-76)
Harass Herbicide	(EPA Registration Number 67760-77)
Nimble Herbicide	(EPA Registration Number 67760-78)
Chlorsulfuron Technical	(EPA Registration Number 67760-79)
Chisum Herbicide	(EPA Registration Number 67760-80)
Report Herbicide	(EPA Registration Number 67760-81)
Report Extra Herbicide	(EPA Registration Number 67760-82)

The Registration Division (RD) has conducted its review of these requests for their applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The labels submitted with the applications have been stamped "Notification" and will be placed in our records, along with this letter.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,



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

3/28

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	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section 1

1. Company/Product Number 67760-73	2. EPA Product Manager James A. Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) NUANCE Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Cheminova Inc. 1700 Route 23, Suite 300 Wayne, NJ 07470	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____ <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> NOTIFICATION JUL 11 2008 </div>	
<input type="checkbox"/> Check if this is a new address		

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 per PR Notice 2007-4

~~This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146 and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formulation for 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 the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146 and 156.156, 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.~~

***Contact: Carrie M. Tackema: carrie.tackema@cheminova.com or fax: 973-305-1382**

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 <i>*Certification must be submitted</i>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt. No. per container		<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) - fiber drums or sacks	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 10 oz. - bulk		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 checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Stenciled					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name Carrie M. Tackema	Title Regulatory Affairs Manager, North America	Telephone No. (Include Area Code) 973-305-6600, X 229

Certification

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 Manager, North America		
4. Typed Name Carrie M. Tackema	5. Date May 5, 2008		
6. Date Application Received (Stamped)			

4/28

NOTIFICATION

JUL 11 2008

NUANCE™ Herbicide

Dry Flowable

For Use on Wheat, Barley, Triticale, Fallow and Pre-plant Burndown

Active Ingredient:

Tribenuron methyl:

Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]sulfonyl]benzoate..... 75%

Inert Ingredients..... 25%

TOTAL 100%

EPA Reg. No. 67760-73

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 this label, find someone to explain it to you in detail.)

IN CASE OF A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT, 1-866-303-6950

See additional precautionary statements directions for use in booklet.

Notice: Read the entire Directions for Use and Warranty Disclaimer, Inherent Risks Of Use, and Limitation Of Remedies before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Manufactured for:

Cheminova, Inc.

1700 Route 23

Wayne, NJ 07470

www.cheminova.us.com

NET CONTENTS:

NUANCE™ is a trademark of Cheminova

Net. Wt. _____

FIRST AID

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 center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION! Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched, or heavily contaminated with this product. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statement: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR Part 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

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 by cleaning of equipment or disposing of equipment washwaters or wastes.

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment
- Ensure that all operation employees accurately measure pesticides.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field, grove, or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates or uses.
- Avoid storage of pesticides near well sites.
- When triple-rinsing the pesticide container, be sure to add the rinsate to the spray mix.

DIRECTIONS FOR USE.

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

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 regulations.

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 the involves contact with anything that has been treated , such as plants, soil, or water is:

- Coveralls.
- Chemical Resistant Gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- Shoes plus socks.

NUANCE™ should be used only in accordance with recommendations on this label or in separately published Cheminova, Inc. recommendations.

Cheminova, Inc. will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Cheminova, Inc.

NUANCE™ is recommended for use on wheat, barley, triticale, post-harvest burndown, fallow and pre-plant burndown in most states. Check with your state extension service or Department of Agriculture before use, to be certain NUANCE™ is registered in your state.

GENERAL INFORMATION

NUANCE™ is a dry flowable granule that is used for selective postemergence weed control in wheat (including durum), barley, triticale, post-harvest burndown, fallow and pre-plant burndown. The best control is obtained when NUANCE™ is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree and duration of control may depend on the following:

- weed spectrum and infestation intensity
- weed size at application
- environmental conditions at and following treatment

NUANCE™ is noncorrosive, nonflammable, nonvolatile, and does not freeze. NUANCE™ should be mixed in water and applied as a uniform broadcast spray.

USE RATE

Apply 1/6 or 1/3 oz NUANCE™ per acre to wheat (including durum), barley, triticale, fallow and pre-plant burndown. Two applications of NUANCE™ may be made per season provided the total amount applied does not exceed 1/3 oz. per acre.

BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS

NUANCE™ is absorbed through the foliage of broadleaf weeds, rapidly inhibiting their growth. Leaves of susceptible plants appear chlorotic from 1 to 3 weeks after application and the growing point subsequently dies.

NUANCE™ provides the best control in vigorously growing crops that shade competitive weeds. Weed control in areas of thin crop stand or seeding skips may not be as satisfactory. However, a crop canopy that is too dense at application can intercept spray and reduce weed control.

NUANCE™ may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may have differing levels of sensitivity to treatment with NUANCE™ under otherwise normal conditions.

Treatment of sensitive crop varieties may injure crops. To reduce the potential of crop injury, tank mix NUANCE™ with 2,4-D (ester formulations perform best-see the Tank Mixtures section of this label) and apply after the crop is in the tillering stage of growth.

In warm, moist conditions, the expression of herbicide symptoms is accelerated in weeds: in cold, dry conditions, expression of herbicide symptoms is delayed. In addition, weeds hardened-off by drought stress are less susceptible to NUANCE™.

Weed control may be reduced if rainfall or snowfall occurs soon after application. Several hours of dry weather are needed to allow NUANCE™ to be sufficiently absorbed by weed foliage.

FALLOW

Fallow Use Rate

Apply 1/6 to 1/3 oz. NUANCE™ per acre to fallow fields. Two applications of NUANCE™ may be made per crop season provided the total amount applied does not exceed 1/3 oz. per acre.

NUANCE™ should be applied in combination with other suitable registered fallow herbicides (See the "TANK MIXTURES" section of this label for additional information)

Application Timing

NUANCE™ may be used as a fallow treatment when the majority of weeds have emerged and are actively growing.

Tank Mixtures In Fallow

NUANCE™ may be used as a fallow treatment, and should be tank mixed with other herbicides that are registered for use in fallow. Read and follow all manufacturers' label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with NUANCE™.

PREPLANT BURNDOWN

Rates and Adjuvants

Apply NUANCE™ at 1/6 – 1/3 oz per acre. Use the higher rate for denser weed populations or where weeds are approaching the maximum size. Also use the higher rate when the weed infestation predominantly consists of those weeds listed in the "Weeds Partially Controlled" section below, or when application timing and environmental conditions are marginal.

Add a spray adjuvant to the tank. Crop Oil Concentrate is preferred at 1% v/v (1 gallon per 100 gallons of final spray volume). Refer to the "Spray Adjuvants" section of this label.

Sequential treatments of NUANCE™ may be made provided the total amount of NUANCE™ applied during one fallow/pre-plant cropland season does not exceed 1/3 ounce per acre.

Application Timing

Apply NUANCE™ as a burndown treatment to control emerged weeds in the fall or spring. Make applications when the majority of weeds have emerged and are actively growing.

Applications can be made:

- prior to wheat. Apply before planting or shortly after planting (and prior to emergence).
- prior to any other crops. Allow at least 45 days between application and planting.

Tank Mixtures

Addition of a minimum of 1/2 lb. active ingredient per acre of 2,4-D LVE ester (e.g. 1 pt of a 4 lb/gal 2,4-D LVE formulation) is recommended for best results, and required for burndown of some weeds.

NUANCE™ may be mixed with one or more other suitably registered herbicides for expanded weed size, or weed spectrum, and/or to add residual control. Read and follow all manufacturers label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with NUANCE™.

Application Equipment and Spray Volumes

Apply uniformly by ground equipment using a properly calibrated fixed boom sprayer. For burndown applications of existing vegetation, use with spray nozzles that provide thorough coverage of the weeds.

Weeds Controlled – Up To 3” In Height Or Diameter – Fallow And Pre-Plant Burndown.

- | | |
|----------------------------------|--------------------------|
| Black mustard | Hairy buttercup |
| Blue/purple mustard | Kochia |
| Bushy wallflower/Treacle mustard | Marestail * |
| Canada thistle | Mayweed chamomile |
| Coast fiddleneck | Miners lettuce |
| Corn spurry | Pineappleweed |
| Common chickweed | Poison hemlock* |
| Common groundsel | Prickly lettuce* |
| Common lambsquarters | Purslane speedwell |
| Common purslane | Russian thistle |
| Cressleaf groundsel (butterweed) | Shepherd’s –purse** |
| Dandelion* | Slimleaf lambsquarters |
| Deadnettle** | Small-flower buttercup |
| Early whitlowgrass | Smallseed falseflax |
| False chamomile | Tarweed fiddleneck |
| Field pennycress | Tumble/Jim hill mustard* |
| Flixweed | Wild chamomile |
| Henbit** | Wild mustard |
| | Wild parsnip* |

*2,4-D LVE addition required

**2,4-D LVE addition recommended

Weeds Partially Controlled * Up To 3” In Height Or Diameter – Fallow And Pre-Plant Burndown**

- | | |
|------------------------------|--------------------|
| Annual sowthistle | Prostrate knotweed |
| Common sunflower (volunteer) | Redroot pigweed |
| Common vetch | Redmaids |
| Hairy vetch | Tansymustard |
| Hairy nightshade | Wild buckwheat |
| Pennsylvania smartweed | Wild garlic |
| | Wild radish |

***partially controlled weeds exhibit a visual reduction in numbers as well as a significant loss of vigor.

WHEAT, BARLEY AND TRITICALE

Use Rate

Use 1/3 oz. NUANCE™ per acre for heavy infestation of those weeds listed in the “WEEDS PARTIALLY CONTROLLED” section of this label and/or when application timing and environmental conditions are marginal (refer to “BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS” section of this label for best performance).

Use 1/6 to 1/4 oz. NUANCE™ per acre for light infestation of weeds listed in the “WEEDS CONTROLLED” section of this label. Conditions at application should be optimum for effective treatment of these weeds.

Application Timing

Apply NUANCE™ after the crop is in the 2-leaf stage, but before the flag leaf is visible. Do not harvest within 45 days of the last application.

Since NUANCE™ has very little or no soil activity, it controls only those weeds that have germinated; therefore, apply NUANCE™ when all or most of the weeds have germinated. For best results, annual broadleaf weeds should be past the cotyledon stage, actively growing, and less than 4” tall or wide. See the “SPECIFIC WEED PROBLEMS” section of this label for more information.

Rainfall immediately after treatment can wash NUANCE™ off of weed foliage, resulting in reduced weed control. Several hours of dry weather are needed to allow NUANCE™ to be sufficiently absorbed by weed foliage.

Weeds Controlled

NUANCE™ effectively controls the following weeds when used according to label directions:

- | | |
|----------------------------------|-----------------------------------|
| Black mustard | Hairy buttercup |
| Blue/purple mustard | Kochia**† |
| Bushy wallflower/Treacle mustard | London Rocket |
| Canada thistle** | Mayweed chamomile/ |
| Coast fiddleneck | Stinking Chamomile/ |
| Common chickweed | dog fennel (Anthemis cotula L.)** |
| Common Groundsel | Miners lettuce |
| Common Lambsquarters | Pineappleweed |
| Common Purslane | Prickly lettuce**† |
| Corn Gromwell ** | Redroot pigweed |
| Corn spurry | Russian thistle**† |
| Cowcockle | Shepherd’s-purse |
| Curly Dock** | Slimleaf lambsquarters |
| False chamomile/Wild chamomile/ | Smallseed falseflax |
| Scentless chamomile | Tansymustard |
| (Matricario maritima L) | Tarweed fiddleneck |
| | Tumble/Jim Hill mustard** |
| | Wild mustard |

Field pennycress
Flixweed

Weeds Partially Controlled*

NUANCE™ partially controls the following weeds when used according to label directions:

- | | |
|-------------------|------------------------|
| Annual sowthistle | Henbit |
| Common cocklebur | Pennsylvania smartweed |
| Common sunflower | Prostrate knotweed |
| (volunteer) ** | Redmaids |
| Common Vetch** | Wild buckwheat |
| Hairy nightshade | Wild garlic |
| Hairy Vetch** | Wild radish** |

* Partially controlled weeds exhibit a visual reduction in numbers as well as a significant loss of vigor. For better results use ¼ or 1/3 oz. NUANCE™ per acre and include a tankmix partner such as 2,4-D, MCP, bromoxynil (such as “Buctril”, “Bison”, “Bronate” or “Bronate Advanced”), or dicamba (such as “Banvel”/“Clarity”). Refer to the TANK MIXTURES section of this label.

**See the specific Weed Problems section of this label for more information.

‡ Naturally occurring resistant biotypes of kochia, prickly lettuce and Russian thistle are know to occur. See the TANK MIXTURES and SPECIFIC WEED PROBLEMS sections of this label for additional details.

Tank Mixtures

NUANCE™ may be tank mixed with other suitable registered herbicides to control weeds listed as partially controlled, weeds resistant to NUANCE™, or weeds not listed under Weeds Controlled. Read and follow all manufacturers label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with NUANCE™.

With 2,4-D (amine or ester) or MCP (amine or ester)

NUANCE™ may be tank mixed with 2,4-D and MCP (preferable ester formulations) herbicides for use on wheat, barley and triticale. For best results, add 2,4-D or MCP herbicides to the tank at 1/8 or 3/8 lb active ingredient per acre. In tank mixes containing 1/8 lb active ingredient 2,4-D or MCP per acre, add 1 to 2 pt of nonionic surfactant; in tank mixes containing ¼ to 3/8 lbs. active ingredient 2,4-D or MCP per acres, add 1 pt of nonionic surfactant.

Higher rates of 2,4-D or MCP may be used, but do not exceed the highest rate allowed by those respective labels. When using rate of 3/8 lbs. ai per acre or higher, use of additional nonionic surfactant may not be needed, unless specified otherwise in the 2,4-D or MCP label, or local recommendations.

Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using these tank mixtures.

With 2,4-D or MCP (amine or ester) and Dicamba (such as “Banvel” / “Clarity”)

NUANCE™ may be applied in a 3-way tank mix with formulations of dicamba (such as “Banvel” / “Clarity”) and 2,4-D or MCP. Observe all applicable directions, restrictions and precautions on labels of all products used.

Make applications at 1/8 – 1/3 oz of NUANCE™ + 1-1.5 oz active ingredient dicamba (such as “Banvel” / “Clarity”) + ¼ to 3/8 lb active ingredient of 2,4-D or MCP (ester or amine) per acre. Use higher rates when weed infestation is heavy. Add 1-2 pt. of nonionic surfactant to the 3 way mixture, where necessary, as deemed by local recommendations. Use of additional nonionic surfactant may not be needed with the higher phenoxy rates and ester phenoxy formulations. Consult the specific 2,4-D or MCP and dicamba labels, or local recommendations for more information.

Apply this 3-way combination to winter wheat after the crop is tillering and prior to jointing (first node). In Spring Wheat (including Durum), apply after the crop is tillering and before it exceeds the 5-leaf stage.

Tank mixtures of NUANCE™ plus dicamba (such as “Banvel” / “Clarity”) may result in reduced control of some broadleaf weeds.

Do not apply this 3-way mixture at high rates more than once a year, or more than twice per year at the low rates.

With Bromoxynil containing products (such as “Buctril”, “Bison”, “Bronate”, “Bronate Advanced”, or “Rhino”)

NUANCE™ may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley or triticale. For best results, add bromoxynil-containing herbicides to the tank at 3 to 6 oz active ingredient per acres (such as “Bronate” or “Bison” at ¾ - 1 ½ pt per acre). Note that tank mixtures of NUANCE™ plus bromoxynil may result in reduced control of Canada thistle.

Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using these tank mixtures. Follow the most restrictive labeling.

With “Starane”, “Starane + Salvo” or “Starane + Sword”

For improved control of Kochia (2-4” tall). NUANCE™ may be tank mixed with 1/3 or 2/3 pints per acre of Starane. 2/3 to 1 1/3 pints per acre of Starane + Salvo, or ¾ to 1 ½ pints per acres of Starane + Salvo and Starane + Sword. Refer to the NUANCE™ herbicide label, and the Starane, Starane + Salvo, and Starane + Sword labels for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on any of the labels will apply. Do not use the tank mix if any restriction on the labels conflict with recommendations on the Cheminova, Inc. herbicide label.

2,4-D and MCP herbicides (preferable ester formulations) may be tank mixed with NUANCE™ plus Starane. Consult local recommendations and the Tank Mixtures section of this label for additional information.

With “Maverick”

NUANCE™ can be tank mixed with “Maverick” herbicide for improved control of weeds in wheat. Refer to the “Maverick” label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “Maverick” label conflict with recommendations on the Cheminova, Inc. herbicide label.

With “Aim”

NUANCE™ can be tank mixed with “Aim” herbicide for improved control of weeds in wheat and barley.

Refer to the “Aim” label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “Aim” label conflict with recommendations on the Cheminova, Inc. herbicide label.

With “Stinger”, or “Curtail” or “Curtail M”, or “WideMatch”

NUANCE™ can be tank mixed with “Stinger”, “Curtail”, “Curtail M” or “Widematch” herbicides for improved control of weeds in wheat and barley.

Refer to the “Stinger”, “Curtail”, “Curtail M” or “WideMatch” label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “Stinger”, “Curtail”, “Curtail M”, or “Widematch” label conflict with recommendations on the Cheminova, Inc. herbicide label.

With “Assert” Herbicide

NUANCE™ can be tank mixed with “Assert”. When tank mixing NUANCE™ with “Assert”, always include another broadleaf weed herbicide with a different mode of action – for example 2,4-D ester, MCP ester, or bromoxynil (such as “Buctril”, “Bison”, “Bronate”, “Bronate Advanced” or “Rhino”). Applications of NUANCE™ plus “Assert” may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application.

With “Puma”

NUANCE™ can be tank mixed with “Puma” herbicide for improved control of weeds in wheat and barley. Refer to the “Puma” label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the “Puma” label conflict with recommendations on the Cheminova, Inc. herbicide label.

With “Discover” or “Discover” NG

NUANCE™ can be tank mixed with “Discover” or “Discover NG” herbicide for improved control of weeds in spring wheat. Refer to the “Discover” or “Discover NG” label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix

if any restrictions on the "Discover" or "Discover NG" label conflict with recommendations on the Cheminova, Inc. herbicide label.

With "Everest"

NUANCE™ can be tank mixed with ""Everest" herbicide for improved control of weeds in spring wheat. Refer to the "Everest" label for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Everest" label conflict with recommendations on the Cheminova, Inc. herbicide label.

With Other Herbicides

Tank mixtures of NUANCE™ plus metribuzin may result in reduced control of wild garlic. Tank mixtures of NUANCE™ with "Hoelon 3EC" may result in reduced grass control.

With Fungicides

NUANCE™ may be tank mixed or used sequentially with fungicides registered for use on cereal crops.

With Insecticides

NUANCE™ may be tank mixed or used sequentially with insecticides registered for use on cereal crops. However, under certain conditions (drought stress, or if the crop is in the 2 to 4 leaf stage), tank mixtures or sequential applications of NUANCE™ with organophosphate insecticides (such as "Lorsban") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application.

Test these mixtures in a small area before treating large areas.

Do not apply NUANCE™ within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment since crop injury may result.

Do not use NUANCE™ plus Malathion since crop injury may result.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing NUANCE™ in fertilizer solution. NUANCE™ must first be pre-slurried with water and then added to liquid nitrogen solutions (e.g. 28-0-0, 32-0-0). Ensure that the agitator is running while the NUANCE™ is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at ½ pt – to 1 qt per 100 gal of spray solution (0.06 – to 0.25% v/v) based on local recommendations.

When using high rates of liquid nitrogen fertilizer solution in spray solution, adding surfactant increases the risk of crop injury. If 2,4-D or MCP is included with NUANCE™ and fertilizer mixture, ester formulations tend to be more compatible (see manufacturer's label). Additional surfactant may not be needed when using NUANCE™ in tank mix with 2,4-D ester or MCP ester and liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, field advisor, or Cheminova, Inc. representative for a specific recommendation before adding an adjuvant to these tank mixtures.

Note: In certain areas east of the Mississippi river unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, field advisor, or Cheminova, Inc. representative for a specific recommendation before using nitrogen fertilizer carrier solutions.

Do not use low rates of liquid nitrogen fertilizer solution as a substitute for a surfactant.

Liquid nitrogen fertilizer solutions that contain sulfur can increase crop response.

Do not use with liquid fertilizer solutions with a pH less than 3.0.

Specific Weed Problems

Canada thistle: For best results, apply 1/3 oz. of NUANCE™ per acre when all thistles are 4" to 8" tall with 2" to 6" of new growth. Make the application in the spring.

Corn Gromwell: For best results, apply 1/3 oz of NUANCE™ per acre in combination with 2,4-D or MCP (refer to the Tank Mixtures section of this label).

Curly Dock: For best results, apply 1/4 to 1/3 oz of NUANCE™ per acre in combination with 24-D or MCP (refer to the Tank Mixtures section of this label).

Kochia: Naturally occurring biotypes resistant to NUANCE™ are known to occur. For best results, use NUANCE™ in a tank mixture with Starane, Starane + Salvo, Starane + Sword, dicamba (such as "Banvel" / "Clarity") and 2,4-D or MCP (ester or amine) or bromoxynil containing products (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "Rhino").

NUANCE™ should be applied in the spring when kochia are less than 2" tall and are actively growing (refer to the Tank Mixtures section of this label for additional details on rates and restrictions).

Mayweed chamomile/Stinking Chamomile/dog fennel: For best results apply 1/4 to 1/3 oz of NUANCE™ per acre.

Russian thistle, Prickly lettuce: Naturally occurring biotypes resistant to NUANCE™ of these weeds are known to occur. For best results, use NUANCE™ in a tank mixture with dicamba (such as "Banvel" / "Clarity") and 2,4-D or MCP (ester or amine). or bromoxynil containing products (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "Rhino").

NUANCE™ should be applied in the spring when Russian thistle and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the Tank Mixtures section of this label for additional details on rates and restrictions).

Tumble/Jill Hill mustard: For best results, apply 1/3 oz of NUANCE™ per acre in combination with 2,4-D or MCP (refer to the Tank Mixtures section of this label).

Vetch (common and hairy): For best results, apply 1/4 to 1/3 oz of NUANCE™ per acre when vetch is less than 6" in length. For severe infestations of vetch, or when vetch is greater than 6" in length, apply NUANCE™ in combination with 2,4-D or MCP (refer to the Tank Mixtures section of this label).

Wild radish: For best results, apply 1/6 – 1/3 oz NUANCE™ per acre, plus 1/4 – to 3/8 lb. active ingredient per acre MCP, plus 0.25% v/v nonionic surfactant (1 qt per 100 gal of spray solution) to wild radish rosettes less than 6" diameter. Make the application either in the fall or spring. Applications made later than 30 days after weed emergence will result in partial control. Fall applications should be made before plants harden-off.

SU/IMI Tolerant Volunteer Sunflowers: Varieties resistant to SU and IMI products (like NUANCE™, "Beyond", "Pursuit", "Raptor") are under development. For best results, use NUANCE™ in a tank mix with Starane, Starane + Salvo, Starane + Sword, dicamba (such as "Banvel" / "Clarity") and 2,4-D or MCP (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "Rhino").

GRASS GROWN FOR SEED ONLY IN THE STATES OF IDAHO, OREGON, AND WASHINGTON

GENERAL INFORMATION

NUANCE™ is recommended for selective postemergence control/suppression of certain broadleaf weeds in seedling and established stands of bentgrass, bluegrass, annual ryegrass, orchardgrass, tall fescue, fine fescue and Timothy grown for seed.

NUANCE™ may be used on seedling and established perennial ryegrass providing user accepts all risk of possible crop injury and/or reduced seed yield. See the "USE RATES" section of this label.

NUANCE™ may cause temporary yellowing and stunting of grass. Best results are obtained when NUANCE™ is applied to young, actively growing weeds. The degree of control and duration of effect are dependent on the rate used, sensitivity and size of target weeds and environmental conditions at the time of and following application.

Note: Certain varieties of grass may be sensitive to NUANCE™. When using NUANCE™ for the first time on a particular variety, limit use to one small container.

USE RATES AND TANK MIXES WITH OTHER HERBICIDES

Bentgrass, Bluegrass, Annual Ryegrass, Orchardgrass, Fine Fescue, Tall Fescue and Timothy

Seedling Stands: For best results apply NUANCE™ in a tank mixture with another suitable broadleaf herbicide.

For use on annual ryegrass, orchardgrass, tall fescue and fine fescue, apply at 1/6 oz/A after stand is in 4-leaf stage.

For use on timothy, apply at 1/6 oz/A after stand is in the 4-5 leaf stage. Always use in a tank-mix with 2,4-D at 1/2lb AI/A.

For use on bentgrass, apply at 1/6 oz/A after stolens are 3 to 5 inches across.

For use on bluegrass, apply at 1/6 to 1/3 oz/A after stand is in 4-leaf stage.

Established Stands: For stands that have been established for at least one growing season (fall or spring), apply NUANCE™ at 1/6 to 1/3 oz/A in a tank mixture with another suitable broadleaf herbicide. Use the higher rate for larger weeds and hard to control weeds like wild carrot. Apply prior to jointing. For application on Timothy, limit maximum use rate to 1/4 oz per acre and always use in a tank mix with 2,4-D at 1/2 pound active ingredient per acre (1 pint of a 4 pound per gallon product).

Perennial Ryegrass

Perennial ryegrass is more sensitive to NUANCE™ than other grass species. Crop injury in the form of stunting and possible reduced seed yield may occur. To minimize the risk of crop injury, use the 1/6 oz/A rate and always use either 2,4-D or dicamba and liquid nitrogen with NUANCE™.

Seedling Stands: Apply NUANCE™ at 1/6 oz/A in a tank mixture with another suitable broadleaf herbicide after grass is in 5-to-6-leaf stage.

Established Stands: For stands that have been established for one growing season (fall or spring), apply NUANCE™ at 1/6 oz/A to 1/3 oz/A in a tank mixture with another suitable broadleaf herbicide. Apply prior to jointing.

Note: The 1/3 oz rate of NUANCE™ should be used only for the control or suppression of problem weeds like wild carrot where the benefit of weed control can be offset by possible crop injury including yield reduction.

TANK MIXTURES

Always use NUANCE in a tank mixture with another broadleaf herbicide such as 2,4-D, MCP or dicamba as these herbicides safen the effects of NUANCE™ on grasses while improving weed control performance on most broadleaf weeds. Testing has shown that 2,4-D and dicamba provide the best overall weed control in a tank mixture with NUANCE™, however, 2,4-D at 1/2 pound a.i. per acre provides the best crop safening effects. The addition of liquid fertilizer is also recommended. See "WITH LIQUID NITROGEN SOLUTION FERTILIZER" section of this label.

Use a minimum of 1/4 to 1/2 lb. ai/acre of 2,4-D or MCP (8 to 16 fluid ounces of 4 lb/gal product).

Use a minimum of 1/8 to 1/4 lbs. ai/acre of dicamba (such as 4 to 8 fluid ounces of "Banvel" or "Clarity").

Liquid Fertilizer

NUANCE™ can be applied with liquid fertilizer. Liquid fertilizers (20%, 28%, 32% N at a minimum of 4 gallons/100 gallons of spray solution) enhance the performance of NUANCE™ and improve crop safety. Always use a surfactant and another broadleaf herbicide when using liquid fertilizer with NUANCE™.

WEEDS CONTROLLED

The following weeds are controlled or suppressed in addition to the weeds listed on the EPA registered package label.

Red deadnettle
Red sorrel

WEEDS PARTIALLY CONTROLLED OR SUPPRESSED*

Dovefoot geranium
Redstem filaree
Spotted catsear
Wild carrot

*Partial Control or Suppression: A visual reduction in weed competition (reduced stand and/or vigor) compared to an untreated area.

Surfactant

Always use a nonionic surfactant of at least 80% active ingredient at the rate of 0.25% volume/volume (1 quart per 100 gallons of spray solution).

Precautions/Restrictions

The use of methylated seed oil (MSO) or crop oil is not recommended with NUANCE™ on grass crops as these adjuvants may produce unsatisfactory crop injury.

Do not apply more than 1/3 ounce per acre per growing season.

Do not graze or cut for hay or feed associated by-products for 60 days after application. After harvest, straw and other by products may be fed to animals, make last application of NUANCE™ at least 60 days prior to harvest of grass seed.

Do not apply NUANCE™ in a tank mix with organophosphate insecticides as severe crop injury may occur.

Do not apply to grass that is under stress from severe weather conditions, drought, low fertility, water saturated soil, disease or insect damage, as crop injury may result. Under certain conditions such as

prolonged cool weather (daily high temperatures less than 50°F) or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

Do not apply to Bermudagrass

SPRINKLER CHEMIGATION WITH NUANCE™ AND BROMOXYNIL CONTAINING HERBICIDES (SUCH AS “BISON”, “BRONATE”, “BRONATE ADVANCED” OR “RHINO”) IN WINTER & SPRING WHEAT & SPRING BARLEY IN IDAHO

DIRECTIONS FOR USE

NUANCE™ is recommended in combination with bromoxynil containing herbicides (such as “Bison”, “Bronate”, “Bronate Advanced” or “Rhino”) for use in fall-seeded wheat, spring seeded barley and spring seeded wheat when applied through sprinkler irrigation systems in the state of Idaho.

HOW TO USE

Use ¼ to 1/3 oz. NUANCE™ per acre in combination with bromoxynil containing herbicides at a rate of 3 to 6 oz active ingredient per acre (such as “Bronate” or “Bison” at ¾ - 1 ½ pt per acre). Apply to wheat and barley after the 3-leaf stage but before the flag leaf is visible. Make only one chemigation application of this mixture per crop year.

For best results, apply to broadleaf weeds up to the 4-leaf stage, or 2 inches in height or 1 inch in diameter, whichever comes first. Consult the NUANCE™ label and bromoxynil containing herbicides package labels for list of weeds controlled or suppressed.

SPRINKLER IRRIGATION APPLICATION

Apply this tank mix through sprinkler irrigation systems including center pivot, lateral move, side (wheel) roll, solid set or hand move irrigation systems only. Do not apply these herbicides 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. **Do not connect an irrigation system (including greenhouse systems) used for NUANCE™ application to any public water system.** 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 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 backflow. 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 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.

SPECIFIC REQUIREMENTS FOR APPLICATION THROUGH SPRINKLER IRRIGATION SYSTEMS

1. For use via chemigation only in Idaho.
2. In center pivot and continuous lateral move systems. NUANCE™ + bromoxynil-containing herbicides should be applied continuously for the duration of the water application. In solid set systems, application of the tank mix should be made during the last 30 to 45 minutes of the irrigation.
3. Set the sprinkler systems to deliver approximately 0.5 inch or less of water per acre for best product performance.
4. Fill the supply tank with half of the water amount desired, add the NUANCE™ and agitate it well. Add the bromoxynil containing herbicides and then add the remaining water amount with agitation. Bromoxynil containing herbicides require a dilution with at least 4 parts water to 1 part bromoxynil containing herbicides.
5. Agitation is recommended in the pesticide supply tank when applying this tank mixture.
6. The use of a surfactant is not recommended with this tank mix application.
7. Inject the NUANCE™ + bromoxynil containing herbicide solution at least 8 feet ahead of a right angle turn of irrigation pipe to insure adequate mixing. Allow sufficient time for the herbicide mixture to be flushed through the lines before turning off irrigation water.
8. Follow both NUANCE™ and bromoxynil containing herbicides label instructions for spray tank cleanout both before and after application. Flush lines with clean water following application.
9. Do not apply when wind speed favors drift beyond the area intended for treatment. Avoiding spray drift is the responsibility of the applicator.

POST HARVEST.

Use Rate

Apply 1/6 to 1/3 oz. NUANCE™ per acre to crop stubble after harvest. Use 1/3 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label, or when application timing and environmental conditions are marginal. (See the "APPLICATION TIMING" Section for restriction on planting intervals). NUANCE should be applied in combination with other suitable registered burndown herbicides (See the "TANK MIXTURES" section of this label for additional information).

Sequential treatments of NUANCE™ may also be made provided the total amount of NUANCE applied during one fallow/pre plant cropland season does not exceed 1/3 ounce per acre.

Application Timing

NUANCE™ may be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing.

Tank Mixtures

NUANCE™ may be used as a post harvest treatment to crop stubble and should be tank mixed with other herbicides that are registered for use in fallow. Read and follow all manufacturers label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with NUANCE™.

GENERAL INFORMATION – ALL USES**SPRAY ADJUVANTS**

Include a spray adjuvant with applications of NUANCE™. In addition an ammonium nitrogen fertilizer may be used. Consult your Ag dealer or applicator prior to using an adjuvant system. If another herbicide is tank mixed with NUANCE™, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40 CFR 1001).

Nonionic Surfactant (NIS)

Apply 0.06 to 0.50% volume/volume /2 pt to 4 pt per 100 gal of spray solution)
Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. – See the Tank Mixtures section of this label for additional information.

Petroleum Crop Oil Concentrate (COC) or Modified Seed Oil (MSO)

Apply at 1% volume/volume (1 gal per 100 gal spray solution) or 2% volume/volume under arid conditions.

Oil adjuvants must contain at least 80% high quality petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Special Adjuvant Types

Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.

In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by Cheminova, Inc.

Ammonium Nitrogen Fertilizer

Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

GROUND APPLICATION

For optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles.

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30" spacing, use flood nozzles no larger than TK10 (or the equivalent), a pressure of at least 30 psi and a spray volume of at least 10 GPA only. For 40" nozzle spacing, use at least 13 GPA; for 60" spacing use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" nozzles are not recommended for NUANCE™ applications as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage at 1 to 5 GPA. Use at least 3 GPA in Idaho, Oregon or Utah.

Do not apply NUANCE™ by air in the state of New York.

See the Spray Drift Management section of this label for additional information.

PRODUCT MEASUREMENT

NUANCE™ can be measured using the NUANCE™ volumetric measuring cylinder included in the case. The degree of accuracy of this cylinder varies by ± 7.5%. For more precise measurement, use scales calibrated in ounces.

CROP ROTATION

Wheat, Barley and Triticale may be replanted anytime after the application of NUANCE™. Sugarbeets, Winter Rape and Canola can be planted at 60 days after the application of NUANCE™. Any other crop may be planted 45 days after the application of NUANCE™.

GRAZING

Do not graze livestock in treated areas. In addition, do not feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/or feed).

MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of NUANCE™.
3. Continue agitation until the NUANCE™ is fully dispersed, at least 5 minutes.
4. Once the NUANCE™ is fully dispersed, maintain agitation and continue filling tank with water. NUANCE™ should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mixture partners (if desired) then add the required volume of spray adjuvant. Always add spray adjuvant last. Antifoaming agents may be used. Do not use with spray additives that alter the pH of the spray solution below pH 6.0 as rapid product degradation can occur. Spray solutions of pH 7.0 and higher allow for optimum stability of NUANCE™.

6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply NUANCE™ spray mixture within 24 hours of mixing to avoid product degradation.
8. If NUANCE™ and a tank mixture partner are to be applied in multiple loads, pre-slurry the NUANCE™ in clean water prior to adding to the tank. This will prevent the tank mixture partner from interfering with the dissolution of the NUANCE™.

SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop.

Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift refer to Spray Drift Management section of label.

Continuous agitation is required to keep NUANCE™ in suspension.

SPRAYER CLEANUP

The spray equipment must be cleaned before NUANCE™ is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in the After Spraying NUANCE™ section of this label.

At The End Of The Day

When multiple loads of NUANCE™ herbicide are applied, it is recommended that at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits, which can accumulate in the application equipment.

After Spraying NUANCE™ And Before Spraying Crops Other Than Wheat, Barley And Tricale

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of NUANCE™ as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia* (contains 3% active ingredient) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the

tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.

3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2
5. Rinse the tank, boom, and hoses with clean water.
6. If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum-labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

*Equivalent amounts of an alternate-strength ammonia solution or a Cheminova, Inc. approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or Cheminova, Inc. representative for a listing of approved cleaners.

Notes:

PRECAUTION: Do not use chlorine bleach with ammonia because dangerous gases will form.

Do not clean equipment in an enclosed area.

1. Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
2. When NUANCE™ is tank mixed with other pesticides, cleanout procedures for each product should be examined and the most rigorous procedures should be followed.
3. In addition to this cleanout procedure, all precleanout guidelines on subsequently applied products should be followed as per the individual product labels.
4. Where routine spraying practices include shared equipment frequently being switched between applications of NUANCE™ and applications of other pesticides to NUANCE™ sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to NUANCE™ to further reduce the chance of crop injury.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Importance Of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 – 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **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 Surface Temperature Inversions sections of this label.**

Controlling Droplet Size – General Techniques

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

Pressure – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

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.

Controlling Droplet Size – Aircraft

Number of Nozzles – Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.

Nozzle Type – Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Boom Length And Height

Boom Length (aircraft) – The boom length should no exceed ¾ of the wing length, using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.

Boom Height (aircraft) – Application more than 10 ft above the canopy increases the potential for spray drift.

Boom Height (ground) – Setting the boom at the lowest height which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

Wind

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

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 hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Surface Temperature Inversions

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature 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 a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Shield Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

Cheminova, Inc. recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

PRECAUTIONS

- Do not graze treated fields or feed treated forage or hay (harvested straw may be used for bedding and/or feed)
- Varieties of wheat (including durum), barley and triticale may differ in their response to various herbicides. Cheminova, Inc. recommends that you first consult your state experiment station, university, or extension agent as to crop sensitivity to any herbicide. If no information is available, limit the initial use to a small area.

- Under certain conditions such as heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after NUANCE™ application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix NUANCE™ with 2,4-D (ester formulations perform best – see the “TANK MIXTURES” section of this label) and apply after the crop is in the tillering stage of growth.
- NUANCE™ should not be applied to wheat, barley or triticale that is stressed by severe weather conditions, drought, low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5-leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.
- Do not apply to wheat, barley or triticale underseeded with another crop.
- Dry, dusty field conditions may result in reduced control in wheel track areas.
- Injury to or loss of desirable trees or vegetation may result from failure to observe the following:
 - Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
 - Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift or spray to desirable plants.
- Injury to or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:
 - Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.
 - Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat or barley.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

PRODUCT DISPOSAL:

Nonrefillable containers equal to or less than 5 gallons:

Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable containers greater than 5 gallons:

Do not reuse or refill this container. Offer for recycling if available. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

WARRANTY DISCLAIMER

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Cheminova's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Cheminova shall not be liable for losses or damages resulting from handling or use of this product unless Cheminova is promptly notified of such loss or damage in writing. In no case shall Cheminova be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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