83190-3 (7/17/2012 (1/18

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Ms Rebecca M Horton
Blue Water Chem Group
P O Box 11384
Fort Wayne IN 46857

JUL 17 2012

Subject Label Amendment
Product Name Tsunami DQ
EPA Reg No 83190 3
Application dated April 10 2012

Dear Ms Horton

The proposed label amendment of the product referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) is acceptable

Please note that marketing claims made on the pesticide label must be substantiated by data maintained in your files If data supporting marketing claims made on the product label is not available then those claims must be removed

Should you wish to add/retain a reference to the company s website on your label then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency If the website is false or misleading the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E) 40 CFR 156 10(a)(5) list examples of statements EPA may consider false or misleading In addition regardless of whether a website is referenced on your product s label claims made on the website may not substantially differ from those claims approved through the registration process Therefore should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration the website will be referred to the EPA s Office of Enforcement and Compliance

Products shipped after 18 months from the date on this notice or the next printing of the label whichever occurs first, must bear the new revised label If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA Your release for shipment of this product constitutes acceptance of these conditions This label supersedes all previously accepted labels You must submit one copy of the final printed label

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before the product is released for shipment One copy of the label stamped Accepted is enclosed for your records If you have any questions please contact Tracy White by phone at (703) 308 0042 or via email at white tracy@epa gov

Sincerely

Kathryn V Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Enclosure Stamped Label and Stamped Supplemental Label

Tsunami DQ

[Optional Marketing Statements]

LANDSCAPE AND AQUATIC HERBICIDE

TO PREVENT ACCIDENTAL POISONING, NEVER PUT THIS PRODUCT INTO FOOD, DRINK, OR OTHER CONTAINERS USE THIS PRODUCT STRICTLY IN ACCORDANCE WITH THE DIRECTIONS ON THIS LABEL

ACTIVE INGREDIENT	
Diquat dibromide [6 7 dihydrodipyrido(1 2 *a* 2 1 *c*) pyrazinediium dibromide] (CAS #85 00 7)	37 3%
OTHER INGREDIENTS	62 7%
TOTAL	100 0%

Contains 2 lbs diquat cation per gallon (3 73 lbs of diquat dibromide per gallon)

ACCEPTED

JUL 17 2012

Under the Federal Insecticide Fungicide, and Rodenticide Act, as amended, for the pesticide registration number 83190 3

KEEP OUT OF REACH OF CHILDREN

CAUTION

(See back/side/other panel(s) (and/or attached booklet) for additional Precautionary Statements and First Aid)

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FIRST AID	
If on skin or clothing	• 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 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 treatment advice
If swallowed	• Call a poison control center or doctor immediately for treatment advice • Have person sip a glass of water if able to swallow • Do not induce vomiting unless told to do so by the poison control center or doctor • Do not give anything by mouth to an unconscious person
If inhaled	• Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact the National Pesticide Information Center at 800 858 7378 for emergency medical treatment information	
NOTE TO PHYSICIAN	
To be effective treatment for diquat poisoning must begin IMMEDIATELY Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if inhaled Harmful if swallowed Causes moderate eye irritation Avoid breathing spray mist Avoid contact with eyes or clothing

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are barrier laminate butyl rubber $\geq$ 14 mils and nitrile rubber $\geq$ 14 mils If you want more options follow the instructions for Category A on an EPA chemical resistant category selection chart

Mixers, Loaders, Applicators and other handlers must wear

- Coveralls over short sleeved shirt and short pants or coveralls over long sleeved shirt and long pants
- Chemical resistant gloves
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure
- Chemical resistant apron when cleaning equipment mixing or loading
- Face shield when mixing or loading

Exception After this product has been diluted to 0 50% Tsunami DQ or less in water (i e the labeled rate for some spot applications) applicators for AQUATIC SURFACE APPLICATIONS must at a minimum wear (Note – Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section)

- Long sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Protective eyewear

Exception At a minimum, applicators for AQUATIC SUBSURFACE APPLICATIONS must wear (Note – Mixers and Loaders for this application method must still wear the personal protective equipment (PPE) as described in the above section)

- Short sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant footwear plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product s concentrate Do not reuse them Follow manufacturer s instructions for cleaning/maintaining PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems that provide dermal protection The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] When using the closed system mixers and loaders PPE requirements may be reduced or modified as specified in the WPS

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/PPE 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

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates

For Terrestrial Uses, 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**

For Aquatic Uses, do not apply directly to water except as specified on this label

DIRECTIONS FOR USE

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

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

Do not apply this product through any type of irrigation system

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 interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 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 over short sleeved shirt and short pants or coveralls over long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses

Keep all unprotected persons out of operating areas or vicinity where there may be drift

For terrestrial uses, do not enter or allow entry of maintenance workers into treated areas or allow contact with treated vegetation wet with spray dew or rain without appropriate protective clothing until spray has dried

For aquatic uses, do not enter treated areas while treatments are in progress

Tsunami DQ herbicide is used to control weeds in the following sites

- aquatic areas
- commercial greenhouses and nurseries
- dormant established turfgrass (bermudagrass zoysiagrass – nonfood or feed crop)
- landscape industrial recreational commercial residential and public areas
- ornamental seed crops (flowers bulbs etc – excluding the state of California)
- turf renovation (all turf areas except commercial sod farms)

Tsunami DQ works by being absorbed by the weed and within a few days the weed shows signs of dying Optimum results are seen if the weeds are young actively growing and free from stress

Avoid spray drift to crops ornamentals and other desirable plants during application as injury may result Clean all spray equipment with water after use Avoid application to muddy water or disturbing the water during application that may reduce weed control To avoid reduced herbicidal activity do not use dirty or muddy water in preparing spray solutions of Tsunami DQ Avoid application under conditions of high wind water flow or wave action

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator and the grower The interaction of many equipment and weather related factors determine the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions

The following drift management requirements must be followed to avoid off target drift movement from aerial applications to agricultural field crops These requirements do not apply to forestry applications public health uses or to applications using dry formulations

- The distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or rotor
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees

Where states have more stringent regulations they must be observed

DROPLET SIZE The most effective way to reduce drift potential is to apply large 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 sections of this label)**

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 – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice 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 ¾ 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 largest 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

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 must compensate for this displacement by adjusting the path of the aircraft upwind Swath adjustment distance should increase with increasing drift potential (higher wind smaller droplets 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

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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 wind is blowing away from adjacent sensitive areas (e g residential areas bodies of water known habitat for threatened or endangered species non target crops)

AQUATIC AND NONCROP USES

New York – Not for Sale or Use in New York State without Supplemental Special Local Needs Labeling

Tsunami DQ is used to control aquatic weeds in waters such as ponds lakes reservoirs marshes bayous drainage ditches canals streams rivers and other slow moving or quiescent bodies of water Do not apply to water that is moving or if outflow leads to *other* waters (i e apply only to still water ponds lakes and drainage ditches)

Optimum control of submersed weeds is obtained by applying Tsunami DQ when the weeds are actively growing (photosynthesizing) typically when water temperatures are about 50°F or more (this occurs usually in the Spring or early Summer)

Precautions and Restrictions

- Obtain all necessary approval and/or permits before application if required Consult the responsible State Agencies (i e Fish and Game Agencies State Water Conservation authorities or Department of Natural Resources)
- Aquatic applications of Tsunami DQ may only be made by those applicators certified for aquatic pest control authorized by the State or Local government Federal or State Public Agencies such as Water Management District personnel and municipal officials and by Corps of Engineers
- For water bodies containing dense weeds apply Tsunami DQ to only 1/3 to ½ of the water body area at one time If a repeat application is required wait for 14 days Using Tsunami DQ in this manner will prevent loss of oxygen in the water body which occurs when dead weeds begin to decompose which often leads to suffocation of fish
- Do not apply Tsunami DQ in areas where commercial processing of fish which produces fish protein concentrate or fish meal is practiced Prior to application coordinate application with and obtain approval from local and/or State authorities
- Use water treated with Tsunami DQ only after the specified number of days have passed after application (refer to the table below for these water use restrictions) Alternatively the water may be used at a different time after application only if an approved assay (ex PAM II

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Spectromatic Method) shows that no more than the designated maximum contaminant level goal (MCLG) of 0 02 mg/L (ppm) of diquat dibromide (calculated as the cation) is present in the water

- If posting is required by your state or tribe consult the agency responsible for pesticide regulations for specific details

Water Use Restrictions Following Applications of Tsunami DQ

	Number of Days to Wait Before Using Water After An Application of Tsunami DQ At Different Application Rates				
TYPE OF WATER	**2 gals / surface acre**	**1 gal / surface acre**	**0 75 gal / surface acre**	**0 50 gal / surface acre**	**Spot Spray (<0 5 gal / surface acre)†**
Drinking	3 days	2 days	2 days	1 day	1 day
Fishing and Swimming	0	0	0	0	0
Livestock/Domestic Animals Consumption	1 day	1 day	1 day	1 day	1 day
Spray Tank Applications†† and Irrigation to Turf and Landscape Ornamentals	3 days	2 days	2 days	1 day	1 day
Spray Tank Applications†† and Irrigation to Food Crops and Production Ornamentals	5 days	5 days	5 days	5 days	5 days

† Apply Tsunami DQ in addition to the manufacturer s recommended rate of a nonionic surfactant (contains 75% or greater nonionic surfactant)

†† Do not use water treated with Tsunami DQ to prepare sprays to be applied to food crops turf or ornamentals until the appropriate time period has elapsed or injury to crop turf or plants could occur

Note If more than one spray tank is required to complete a single aquatic application there is no water restriction between the consecutive spray tank applications

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[Optional Water Use Restrictions Chart reflecting reduced quantity equivalents to correspond with small packaging, e g , 1 QT

Water Use Restrictions Following Applications of Tsunami DQ

	Number of Days to Wait Before Using Water After An Application of Tsunami DQ At Different Application Rates				
TYPE OF WATER	**1 QT 5,445 sq ft / surface area**	**1 QT/ 10,890 sq ft surface area**	**1 QT/ 14,375 sq ft surface area**	**1 QT/ 21,780 sq ft surface area**	**Spot Spray (<1 QT/ 21,780 sq ft surface area)†**
Drinking	3 days	2 days	2 days	1 day	1 day
Fishing and Swimming	0	0	0	0	0
Livestock/Domestic Animals Consumption	1 day	1 day	1 day	1 day	1 day
Spray Tank Applications†† and Irrigation to Turf and Landscape Ornamentals	3 days	2 days	2 days	1 day	1 day
Spray Tank Applications†† and Irrigation to Food Crops and Production Ornamentals	5 days	5 days	5 days	5 days	5 days

† Apply Tsunami DQ in addition to the manufacturer s recommended rate of a nonionic surfactant (contains 75% or greater nonionic surfactant)

†† Do not use water treated with Tsunami DQ to prepare sprays to be applied to food crops turf or ornamentals until the appropriate time period has elapsed or injury to crop turf or plants could occur

Note If more than one spray tank is required to complete a single aquatic application there is no water restriction between the consecutive spray tank applications]

Control of Floating and Marginal Weeds

Tsunami DQ controls the listed floating and marginal weeds from application by airboat airplane backpack spray handgun helicopter or similar application equipment For all application methods ensure that weeds received thorough spray coverage

Floating and Marginal Weeds Controlled
Water lettuce *Pistia stratiotes*
Water hyacinth *Eichhornia crassipes*
Duckweed *Lemna* spp
Salvinia spp (including *S molesta*)
Pennywort (*Hydrocotyle* spp)
Frog s Bit *Limnobium spongia*†
Cattails *Typha* spp

† Not registered for use in California

Spot Treatment

Application Rates 2 quarts Tsunami DQ per 100 gallons spray carrier [1 QT per 50 gallons spray carrier] (0 5% solution) ***plus*** 0 25 1 0% v/v (1 quart to 1 gallon per 100 gallons water) of an approved aquatic wetting agent

For cattail control Apply Tsunami DQ before flowering at 8 quarts of Tsunami DQ/100 gallons spray carrier [1 QT per 12 5 gallons spray carrier] (the maximum application rate) plus the wetting agent Make repeat applications if needed for complete control

Application Directions Apply spray solutions to wet completely the target weeds Do not spray to runoff Additional applications may be needed if treating densely packed weeds or mats Best results are obtained for weed escapes if repeat applications are made within 2 weeks of the first treatment

Broadcast Treatment

Application Rates 0 5 to 2 0 gallons Tsunami DQ per surface acre [1 to 4 quarts per 21 780 sq ft surface area] in sufficient spray carrier ***plus*** 16 to 32 oz per acre [8 to 16 oz per 21 780 sq ft surface area] of an approved aquatic wetting agent

For duckweed control Apply Tsunami DQ at 1 2 gallons/A [1 to 2 quarts per 10 980 sq ft surface area]

Application Directions Apply sprays to ensure thorough target weed coverage Repeat applications may be necessary for densely populated weed areas

Control of Submerged Weeds

Tsunami DQ controls the listed submerged weeds from application by surface subsurface and bottom placement applications Enhanced weed control may be obtained in situations where severe weed or algae infestations are found use an approved algaecide either as a pretreatment to a Tsunami DQ application or as a tank mix with Tsunami DQ

Submersed Weeds Controlled or Suppressed
Bladderwort, *Utricularia* spp
Hydrilla *Hydrilla verticillata*
Watermilfoils (including Eurasian) *Myriophyllum* spp
Pondweeds, *Potamogeton* spp †
Coontail *Ceratophyllum demersum*
Elodea *Elodea* spp
Brazilian Elodea *Egeria densa*
Naiad *Najas* spp
Algae *Spirogyra* spp and *Pithophora* spp ††

† Tsunami DQ does not control Richardson s pondweed *P richardsonii*

†† Suppression only *Spirogyra* and/or *Pithophora* can be controlled using a tank mix of Tsunami DQ with an approved algaecide

Application Rates 0 5 2 0 gallons Tsunami DQ in water per surface acre [1 to 4 quarts per 21 780 sq ft surface area] (per 4 foot water depth) For severe weed infestations use the 2 0 gallon per surface acre [higher] rate Repeat applications at 14 to 21 day intervals may be needed for optimum control

Use the table below to determine the number of gallons of Tsunami DQ needed to apply per surface acre based on water depth

	Gallons of Tsunami DQ per Surface Acre			
	Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1 gallon/acre rate	0 25 gal	0 50 gal	0 75 gal	1 0 gal
2 gallon/acre rate	0 50 gal	1 0 gal	1 5 gals	2 0 gals

Note For water depths of 2 feet or less including shorelines do not exceed 1 gallon per surface acre

[Optional Rate Chart reflecting reduced quantity equivalents to correspond with small packaging, e g , 1 QT

	Quarts of Tsunami DQ per 10,890 Sq Ft of Surface Area			
	Average Water Depth			
	1 Foot	2 Feet	3 Feet	4 Feet
1QT/10,890 sq ft surface area	0 25 QT	0 50 QT	0 75 QT	1 QT
2 QTS/10,890 sq ft surface area	0 50 QT	1 QT	1 5 QT	2 QT

Note For water depths of 2 feet or less including shorelines do not exceed 1 QT per 10 890 sq ft of surface area

Application Directions

Subsurface Applications For submersed weeds especially *Hydrilla* that have reached the water s surface apply Tsunami DQ in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips that direct the dilute spray below the water surface to ensure adequate weed coverage

Bottom Placement For submersed weeds (ex *Hydrilla* Bladderwort or Coontail) that have reached the water surface and/or where the water is slowly moving through the weed growth apply Tsunami DQ in an invert emulsion carrier with weighted hoses that injects the diluted spray solution near the bottom Adding a copper based algaecide may improve control Alternatively, a pretreatment application with a copper based algaecide may improve overall control if algae are present along with submersed weeds

Surface Application for Submersed Aquatic Weeds For submerged weeds apply Tsunami DQ as a spray in sufficient carrier to fully cover the target area and to ensure complete coverage of the weed areas The higher rate is recommended for mixed weed populations Surface spray applications are not recommended for densely packed submersed weeds or if water is over 2 feet deep (use subsurface applications of Tsunami DQ in these situations)

COMMERCIAL GREENHOUSES AND NURSERIES

Tsunami DQ may be used for general weed control in commercial greenhouses (ex beneath benches) for field grown and container stock and in other similar areas Make applications of Tsunami DQ preplant or postplant preemergence in field grown ornamental nursery plantings or postemergence as a directed spray For ornamental seed crops (NOT registered for use in the State of California) Tsunami DQ may also be applied preemergence Do not allow sprays to contact desirable foliage or injury may occur Do not use on food or feed crops

Spot Spray Application Rates 1 2 qts Tsunami DQ ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per 100 gals of water or 0 75 oz (22 ml) Tsunami DQ plus the manufacturer s recommended rate of a nonionic surfactant (contains 75% or greater nonionic surfactant) per 1 gallon of water

Broadcast Application Rates 1 2 pts Tsunami DQ in a minimum of 15 gallons of water per acre ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per 100 gals of spray mixture For thorough coverage apply Tsunami DQ in an adequate spray volume

DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS) NONFOOD OR FEED CROP

Tsunami DQ controls the listed emerged annual broadleaf and grass weeds in established dormant bermudagrass lawns parks golf courses etc Do not apply unless turfgrass is dormant at application Application to actively growing bermudagrass may cause delay or permanent injury If using this product in extreme Southern areas of the U S make certain that the turfgrass is dormant at the time of application

Weeds Controlled in Established Dormant Turfgrass
Little Barley†
Annual Bluegrass
Bromes including Rescuegrass Sixweeks fescue Henbit, Buttercup and Carolina Geranium

†Apply Tsunami DQ before the mid boot stage

Broadcast (Ground) Application Rates 1 2 pts Tsunami DQ per acre in 20 100 gals of spray mix ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per 100 gals of spray mixture

LANDSCAPE, INDUSTRIAL, RECREATIONAL, COMMERCIAL, RESIDENTIAL, AND PUBLIC AREAS

Tsunami DQ is a nonselective herbicide and it will kill broadleaf and grassy weeds in industrial recreational golf course commercial residential and public areas within 24 36 hours Do not allow sprays to contact desirable plant foliage or injury may occur

To be effective as a contact/desiccant herbicide Tsunami DQ must completely cover the target weeds Best results are seen when Tsunami DQ is applied to young actively growing weeds Do not apply to weeds that are growing under stress Use the recommended application techniques for acceptable weed control

For weeds that are difficult to control such as perennial or deeply rooted weeds control is often obtained by applications of Tsunami DQ as a tank mix with other systemic type herbicides Tsunami DQ when applied as a tank mix with a preemergent herbicide labeled for the intended use site will provide residual control Before preparing large volume of a tank mix of Tsunami DQ with other herbicides check that the tank mix is physically compatible by mixing only a small amount of the tank mix If the mixture balls up forms flakes sludges jells oily films or layers or other precipitates do not use this combination it is not compatible Read and follow the other product labels for specific application directions

It is not possible for Blue Water Chem Group to test all possible tank mixtures of Tsunami DQ with other pesticides for compatibility efficacy or other adverse effects Blue Water Chem Group recommends you consult your state experimental station state university or extension agent before tank mixing Tsunami DQ with other herbicides

Grounds maintenance weed control in public, commercial and residential landscapes, including landscape beds, lawns, golf courses and roadsides Apply Tsunami DQ as a spot or broadcast spray to control weeds in listed sites or to control weeds around the edges and nonflooded portions of ponds lakes and ditches

Trim and Edge weed control along driveways, walkways, patios, cart paths, fence lines, and around trees, ornamental gardens, buildings, other structures, and beneath noncommercial greenhouse benches Tsunami DQ can be used to eliminate undesired grass and broadleaf plant growth in a narrow banded areas along the areas listed

Since Tsunami DQ does not translocate systemically it can be used as an edging or pruning tool Tsunami DQ must be applied only to the select narrow banded areas of grass or undesirable weed growth found in desirable ornamental bedding plants ground covers etc Tsunami DQ will only control vegetation growing within the width of the spray application Do not exceed the labeled rate of Tsunami DQ or concrete based materials will be stained

Industrial weed control for right-of ways, railroad beds/yards, highways, roads, dividers and medians, parking lots, pipelines, pumping stations, public utility lines, transformer stations and substations, electric utilities, storage yards, and other non-crop areas Apply Tsunami DQ as a spot or broadcast spray either alone or in combination with other herbicides for a fast burndown of weeds in listed industrial weed control sites

Spot Spray Applications 1 2 qts of Tsunami DQ ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per 100 gals water For small spray solution volumes mix 0 75 oz (22 ml) Tsunami DQ with the appropriate amount of the nonionic surfactant in 1 gallon of water

Broadcast Applications 1 2 pts Tsunami DQ per acre ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per 100 gals of spray mixture Use sufficient water to ensure good spray coverage although increased spray volumes (60 gals or more are recommended) will be necessary for treating tall and/or dense target plants

ORNAMENTAL SEED CROPS (FLOWERS, BULBS, ETC)
(NOT REGISTERED FOR USE IN THE STATE OF CALIFORNIA)

Tsunami DQ can be used for preharvest desiccation of ornamental seed crops DO NOT USE FOR FOOD OR FIBER CROPS

Broadcast (Air or Ground) Applications 1 5 2 pts Tsunami DQ ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate per acre Apply in sufficient amount of water (minimum of 5 gallons by air 15 gallons by ground) to ensure desiccation and weed burndown Make repeat applications at a minimum of 5 day intervals and do not apply more than three applications Do not use seed screenings or waste as feed or for consumption

TURF RENOVATION
(ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

Tsunami DQ is used to desiccate golf course turf and other turf areas prior to renovation For suppression of regrowth and quick desiccation of treated turfgrass use Tsunami DQ as a tank mix with other systemic nonselective or systemic postemergence grassy weed herbicides Before tank mixing with other products read and follow the other product labels for specific application directions and restrictions

Broadcast (Ground) Application 1 2 pts of Tsunami DQ per acre ***plus*** a nonionic surfactant (contains 75% or greater nonionic surfactant) at the manufacturer s recommended rate in 20 100 gals of water For smaller spray solution volumes mix 4 teaspoons of Tsunami DQ and the appropriate amount of nonionic surfactant in 1 gal of water Apply Tsunami DQ as a full coverage spray to thoroughly contact the turfgrass Make applications only when the turf is dry free from dew or other moisture Increased water volumes (100 gal of water per acre) will enhance turf desiccation especially when turfgrass is dense and thick

Do not allow sprays to come in contact with or drift to foliage of ornamental plants or food crops

Do not graze livestock on treated turf or feed treated thatch to livestock

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Keep pesticide in original container Do not put concentrate or dilute into food or drink containers Do not contaminate feed foodstuffs or drinking water Do not store or transport near feed or food Store at temperatures above 32°F

PESTICIDE DISPOSAL Open dumping is prohibited Pesticide wastes are toxic Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance

CONTAINER DISPOSAL [For Containers ≤ 5 Gal] Nonrefillable container Do not reuse or refill this container Triple rinse all containers prior to disposal and then offer for recycling if available or puncture and dispose of in an approved manner or dispose by incineration if allowed by local and state authorities If disposal is by incineration stay out of smoke 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

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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

CONTAINER DISPOSAL [For Containers > 5 Gal] Nonrefillable container Do not reuse or refill this container Triple rinse all containers prior to disposal and then offer for recycling if available or puncture and dispose of in an approved manner or dispose by incineration if allowed by local and state authorities If disposal is by incineration stay out of smoke Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Recap 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 or store rinsate for later use or disposal Repeat this procedure two more times

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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