



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number: **83529-384** Date of Issuance: **2/9/26**

NOTICE OF PESTICIDE:

Registration

Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

SMASH II

Name and Address of Registrant (include ZIP Code):

Sharda USA LLC
PO Box 640
Hockessin DE 19707

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:


Kevin Ulrich (for) for

Nathan Mellor, Chief
Fungicide Herbicide Branch, Registration Division (7505T)

Date:

2/9/26

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-384."
3. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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) lists 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 04/10/2024
- Alternate CSF 1 dated 04/10/2024

If you have any questions, please contact Hector Escobar at 202-566-1371 or at escobar.hector@epa.gov.

Enclosure: Stamped Label

SMASH II

Herbicide

For preemergence and postemergence weed control in Christmas tree, conifer, and hardwood plantations; field-grown ornamental production; and noncropland areas such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; utility substations, petroleum tank farms, pumping installations, farmyards and around farm buildings; fence rows, storage areas, airports, and nonirrigation ditchbanks

ACTIVE INGREDIENT:	(% by weight)
topramezone: [3-(4,5-dihydro-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1 <i>H</i> -pyrazol-4-yl)methanone	29.7%
OTHER INGREDIENTS**	70.3%
TOTAL	100.0%

1 gallon contains 2.8 pounds of topramezone free acid

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

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

[See] [inside] [label] [booklet] [for] [additional] [Precautionary Statements][.] [and] [Directions for Use] [including] [Storage and Disposal] [instructions][.]

EPA Reg. No. 83539-

EPA Est. No.:

Net Weight:

Manufactured [for][by]
SHARDA USA LLC
P.O BOX 640
Hockessin, DE 19707

ACCEPTED

Feb 09, 2026

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 83529-384

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 1-800-222-1222 for emergency medical treatment information

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION/PRECAUCION

CAUTION. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if swallowed or absorbed through the skin.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves including barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, or viton \geq 14 mils
- Shoes plus socks
- Goggles, face shield, or safety glasses

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 and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

Environmental Controls Statement

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.

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 when disposing of equipment washwater or rinsate.

DO NOT apply this product through any type of irrigation system.

This product is toxic to aquatic and terrestrial plants. Minimize exposure to nontarget plants. **DO NOT** apply when weather conditions favor drift from target areas.

NON-TARGET ORGANISM ADVISORY: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

This product is classified as a high potential for reaching both surface water and aquatic sediment via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water feature such as ponds, streams, and springs will reduce the potential loading of topsoil and its transformation products from runoff water.

Product must be used in a manner that will prevent back-siphoning in wells, spills or improper disposal of excess pesticide, spray mixture or rinsate.

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 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 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, or Viton \geq 14 mils
- Shoes plus socks

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) 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.

DO NOT enter or allow people or pets to enter the treated area until sprays have dried.

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.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during

application.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

Pesticide Storage

Store product in original container only. Store product in a cool, dry place. **DO NOT** store this product under wet conditions. If this product has been stored where freezing temperatures have occurred, agitate or mix contents of container well before use. Avoid cross-contamination with other pesticides.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable Container. **DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) 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 1/4 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.

Triple rinse containers too large to shake (capacity $>$ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-

out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

Spills

In case of large-scale spill of this product, call:

- CHEMTREC **1-800-424-9300**

Steps to take if this material is released into the environment or spilled:

- Wear Personal Protective Equipment (PPE) and avoid exposure when managing a spill. (See Precautionary Statements section of this label for required PPE.)
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

Product Information

SMASH II herbicide is a suspension concentrate (SC) broad-spectrum preemergence and systemic postemergence herbicide for control or growth suppression of broadleaf and grass weeds in noncropland areas. When applied as directed, **SMASH II** will control or suppress the broadleaf weeds listed in **Table 1. Broadleaf Weeds Controlled** and the grass weeds listed in **Table 2. Grass Weeds Controlled**. **SMASH II** may be used for the control of these weeds in bareground programs; Christmas tree, conifer, and hardwood plantations; field ornamental production and selective weeding in areas such as utility, highway, and pipeline rights-of-way, etc. Postemergence applications of **SMASH II** must include spray additives (see **Additives** Section and **Mixing Order** section of this label).

Mode of Action

SMASH II is absorbed by leaves, roots, and shoots and translocated to the growing points of sensitive weeds to provide control of emerged weeds. **SMASH II** controls weeds by inhibiting carotenoid biosynthesis (HPPD inhibitor **Group 27**). Temperatures and moisture conditions for active plant growth are important for optimum **SMASH II** activity. **SMASH II** application to weeds during periods of stress conditions, such as cold temperatures and/or drought, may result in reduced performance.

Herbicide Resistance Management

Management Plan

While weed resistance to Group 27 herbicides is infrequent, populations of resistant biotypes are known to exist. Weeds resistant to Group 27 herbicides may be effectively managed using herbicide(s) from a different group. Resistance management should be part of a diversified weed control strategy that integrates chemical, cultural, and mechanical (tillage) control tactics. Cultural control tactics include crop rotation, proper fertilizer placement, and optimum seeding rate/row spacing. Consult your local Sharda representative, state cooperative extension service, professional consultants, or other qualified authority to determine appropriate actions if you suspect resistant weeds.

Chemical Control

- Start clean with tillage or an effective burndown herbicide program.
- **DO NOT** rely on a single herbicide site of action for weed control.
- Follow labeled application rate and weed growth stage specifications.
- The use of preemergence herbicides that provide soil residual control of broadleaf and grass weeds is recommended to reduce early season weed competition and allow for timely postemergence herbicide

applications.

- Avoid application of herbicides with the same site of action more than twice a season.
- Use tank mixes and sequential applications with other herbicides possessing different sites of action that are also effective on the target weeds.

Scouting and Containment

- Scout areas after herbicide application to identify areas where weed control was ineffective.
- Control weed escapes with herbicides possessing a different site of action or use a mechanical control measure. Weed escapes should not be allowed to reproduce by seed or to proliferate vegetatively.
- Contact your **SMASH II herbicide** supplier and/or your local SHARDA representative to report weed escapes.
- Clean equipment before moving to a different field to avoid spread of resistant weeds.

Table 1. Broadleaf Weeds Controlled
(4 to 16 fl ozs/A)

Broadleaf Weeds	Maximum Size ^a (inches)
Amaranth, Palmer	6
Amaranth, Powell	6
Burcucumber	6
Carpetweed	6
Chickweed, common	4
Cocklebur, common	8
Dandelion	6
Galinsoga, hairy	6
Horseweed (Marestail)	6
Jimsonweed	6
Kochia	6
Lambsquarters, common	6
Mallow, common	3
Mallow, Venice	3 ^b
Morningglory spp .	6 ^b
Mustard spp .	6
Nightshade, black	6
Nightshade, Eastern black	6
Nightshade, hairy	6
Pigweed, prostrate	6
Pigweed, redroot	6
Pigweed, smooth	6
Pigweed, tumble	4
Prickly lettuce	4
Ragweed, common	6
Ragweed, giant	8
Shepherd's purse	4

Sida, prickly	3
Smartweed, ladysthumb	3
Smartweed, Pennsylvania	3
Sunflower, volunteer	8
Sunflower, wild (common)	8
Thistle, Canada Thistle, Russian	6 ^b 4
Velvetleaf	8
Waterhemp, common	6
Waterhemp, tall	6
White clover	3

^aFor best control, apply before weeds reach maximum size.

^b Growth suppression only

Grass Weeds	Maximum Leaf Stage ¹	Maximum Size ¹ (inches)
Barnyardgrass	4	4
Crabgrass, large	4	3
Crabgrass, smooth	4	3
Cupgrass, woolly	3	3
Dallisgrass ²	3	3
Foxtail, giant	4	4
Foxtail, green	3	3
Foxtail, yellow	3	3
Goosegrass	4	3
Johnsongrass, seedling	3	4
Millet, wild proso	3	3
Panicum, fall	3	3
Shattercane	3	4
Signalgrass, broadleaf	3	3
Sprangletop	3	3

¹For best control, apply before weeds reach maximum size or leaf stage

² Growth suppression only.

Application Methods and Equipment

SMASH II may be applied by either ground or air. Use adequate spray volume to provide accurate and uniform distribution of spray droplets over the treated area and to avoid spray drift to nontarget areas. Adjust equipment to maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above the maximum use rates specified in this label.

DO NOT exceed a total of 16 fl ozs per treated acre per year (0.35 lb topramezone).

The applicator is responsible for any loss or damage that results from spraying **SMASH II herbicide** in a manner other than that specified in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

Coverage

For postemergence application, weeds must be thoroughly covered with spray. Dense leaf canopies shelter small weeds and can prevent adequate spray coverage.

For optimal weed control, apply **SMASH II** before weeds exceed labeled height.

Postemergence applications of **SMASH II** should be applied a minimum of 1 hour before rainfall and require the use of spray additives (see **Additives** section).

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- **DO NOT** release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641). If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- The boom length must not exceed 75% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- **DO NOT** apply during temperature inversions.

Airblast Applications:

- Sprays must be directed into the canopy.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 mph at the application site.
- **DO NOT** apply during temperature inversions.

Boomless Ground Applications:

- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Ground Application (Broadcast)

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. Use higher water volumes treating larger weeds and/or high-density weed infestations.

Ground Application (Banding)

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. Use

higher water volumes treating larger weeds and/or high-density weed infestations.

For banded application, use the following formulas to calculate the banded herbicide rate and water volume per acre:

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Banded herbicide rate per acre}$$

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast volume per acre} = \text{Banded herbicide rate per acre}$$

Spot Treatment

To prepare the spray solutions, thoroughly mix in water 0.25 to 0.5% (0.32 to 0.64 fl oz/gallon water) **SMASH II** plus an adjuvant (see **Additives** section). A methylated seed oil at 1% by spray volume is the suggested spray adjuvant. When making spot applications, spray coverage should be sufficient to moisten the leaves of the target vegetation, but not to the point of runoff. See section on desired species.

Aerial Application

Uniformly apply with properly calibrated aerial equipment in 2 or more gallons of water per acre. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to nontarget areas. To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following special aerial use directions and precautions.

Applicators are required to use a coarse or coarser droplet size (ASABE S641) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.

Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.

DO NOT apply when wind speed is greater than 10 mph.

Cleaning Spray Equipment

To avoid injury to sensitive crops, drain and clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions. Triple rinse the equipment before and after applying this product.

MANAGING OFF-TARGET MOVEMENT

The following information is provided as general guidance for managing off-target movement. Specific use directions for **SMASH II** may differ depending on the application technique used and the vegetation management objective.

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

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area.

Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential is to apply large 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**).

Spray Drift Advisories

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

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 the spray is released parallel to the airstream produces larger drop-lets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type 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. **DO NOT** use nozzles producing a mist droplet spray.

Application Height

Making applications at the lowest possible height (aircraft, ground-driven spray boom) that is safe and practical 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 upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential.

NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns

and how they affect spray drift.

Temperature and Humidity

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

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud that 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.

Wind Erosion

Avoid treating powdery, dry, or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Additives

Postemergence application of **SMASH II herbicide** requires the addition of an adjuvant to achieve optimum weed control.

Always use a methylated seed oil (MSO) or a petroleum- based or vegetable seed-based oil concentrate (COC) with SMASH II. For best performance across a wide range of environmental conditions, including when weeds are under moisture and/or temperature stress, use of an MSO adjuvant is suggested. Apply these oil-based adjuvant concentrates at the rate of 1.0 to 1.5 gallons per 100 gallons of water [1.0% to 1.5% volume-to-volume (v/v)]. Use the higher rate when making an application during periods of hot, dry weather. A nitrogen-based surfactant blend may be used as an alternative or additive to COC or MSO.

Agriculturally approved drift-reducing additives may be used in applications with **SMASH II**.

Mixing Instructions

Fill the spray tank until it is approximately 1/2 full with clean water. Shake the **SMASH II** container well; then slowly add **SMASH II** to the spray tank while agitating. Agitation must be engaged before adding the product to obtain a complete and uniform mixture of **SMASH II**.

Limit the amount of spray mixture prepared to that needed for immediate use.

Mixing Order

Use only water as a carrier.

Water

1. Fill the spray tank 1/2 to 3/4 full with clean water.
2. Add the required amount of **SMASH II herbicide** to the spray tank while agitating.
3. After SMASH II has visibly dispersed, add spray additives and fill the remainder of the tank with water.

Tank Mix Preparation

When tank mixing **SMASH II** with registered herbicides, add the other herbicides and other components in the following order while agitating:

1. Fill spray tank 1/2 to 3/4 full with clean water.

2. Add soluble-packet products and thoroughly mix.
3. Add SMASH II and thoroughly mix.
4. Add WP (wettable powder), DG (dispersible granule), DF (dry flowable), or LF (liquid flowable) formulations.
5. Add EC (emulsifiable concentrate) products.
6. Add spray adjuvants to the spray tank.
7. While agitating, fill the remainder of the tank with water.

Tank Mix Information

SMASH II may be used sequentially or tank mixed with other herbicides as part of a complete weed control program. **SMASH II** may be tank mixed only in states where the sequential or tank mix product and application site are registered. Refer to **Noncrop Use Directions** for more details and for specific tank mix restrictions. Read and follow the applicable restrictions and limitations and **Directions For Use** on all products included in any tank mix. The most restrictive labeling applies to tank mixes.

Restrictions and Limitations

- **DO NOT** apply more than 16 fl ozs **SMASH II** (0.35 lb topramezone) per acre during the year.
- **DO NOT** apply to areas that can be grazed or cut for hay.

Noncrop Use Directions

Bareground

SMASH II can be used as part of a program for non-selective vegetation control to maintain bare ground in noncrop areas that must be kept weed free such as rail-road, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; utility substations, petroleum tank farms, pumping installations, fence rows, storage areas, farmyards and around farm buildings and nonirrigation ditchbanks.

SMASH II offers residual and postemergence control of susceptible annual broadleaf and grass weeds. Adequate moisture is necessary to activate **SMASH II**. Dry weather following application may reduce effectiveness. The actual length of residual control is dependent on factors such as soil type, organic matter, weed pressure, and rainfall amounts after application.

Preemergence Application

Apply **SMASH II** at 4 to 16 fl ozs/A before weed emergence to control susceptible weeds listed in **Table 1** and **Table 2**. For best performance, tank mix **SMASH II** with other residual herbicides such as [ismazapyr,] [Arsenal® PowerLine™ herbicide (EPA Reg # 241-431)], [Imazapic and Glyphosate,] [Journey® herbicide (EPA Reg # 241-417), [pendimethalin,] Pendulum® AquaCap™ herbicide (EPA Reg #241-416)], [ismazapyr,] [Plateau® herbicide (EPA Reg # 241-365)], or diuron.

Early Postemergence Application

For areas where weed emergence has already occurred, apply **SMASH II** at 4 to 16 fl ozs/A before weeds reach the maximum size or leaf stage listed in **Table 1** and **Table 2**. Postemergence application of **SMASH II** requires the use of an adjuvant to achieve optimum weed control (see **Additives** section). To increase postemergence spectrum, **SMASH II** can be tank mixed with glyphosate. For best residual effects, tank mix with [ismazapyr,] [Arsenal® PowerLine™ herbicide (EPA Reg # 241-431)], [Imazapic and Glyphosate,] [Journey® herbicide (EPA Reg # 241-417), [pendimethalin,] Pendulum® AquaCap™ herbicide (EPA Reg #241-416)], [ismazapyr,] [Plateau® herbicide (EPA Reg # 241-365)], or diuron. (refer to respective labels for appropriate use rates).

Christmas Tree, Conifer and Hardwood Tree Plantings and Plantations

SMASH II may be used for selective weed control in Christmas tree plantations and conifer and hardwood plantations. See the following sections for more information on specific uses.

Christmas Tree Plantations

SMASH II may be used as a preemergence or directed postemergence application in Christmas tree plantations to control broadleaf and grass weeds listed in **Table 1** and **Table 2**. Apply **SMASH II** as a directed spray application either as a uniform broadcast application or as a uniform banded application directed at the base of the trees. If targeting emerged weeds, include spray additives (see **Additives** section). Spray contact of the needles or buds either directly via improper nozzle orientation or indirectly via physical drift may result in crop injury.

SMASH II may be applied in a single application at a maximum rate of 4 fl ozs/A. Sequential applications can be made up to a maximum total of 16 fl ozs/A per year.

- **DO NOT** apply more than 4 fl ozs/A per application.
- **DO NOT** apply more than 16 fl ozs/A per year (0.35 lb topramezone).
- Allow a minimum of 30 days between **SMASH II** applications.
- **DO NOT** make over-the-top applications to Christmas trees or injury may occur.

Conifer and Hardwood Plantations

Apply **SMASH II** plus the recommended adjuvant (see **Additives** section for details) for the control of undesirable plants during site preparation operations conducted before planting and establishment of conifer and hardwood plantations and in the year following trans planting.

Site Preparation Application

SMASH II® herbicide may be applied as a broadcast application or spot treatment during preplant site preparation for the control of undesirable herbaceous broadleaf weed species in plantations at a rate of 4 to 16 fl ozs/A in combination with **Chopper® Gen2™ herbicide** at the specified site preparation rate (see **Chopper Gen2 label**). Refer to **Table 1** and **Table 2** for specific weed species controlled.

Herbaceous Weed Control

SMASH II may be used for selective weeding in conifer and hardwood plantations at a rate of 4 to 16 fl ozs/A. Apply **SMASH II** as a broadcast treatment, banded over tree rows, or as a directed spray for release of young trees from herbaceous weeds (see species controlled in **Table 1** and **Table 2**) in the year following transplanting. For conifers, tank mix with the herbaceous weed control rate of **Arsenal® herbicide** or **Arsenal® herbicide Applicators Concentrate** (see **Arsenal** or **Arsenal herbicide Applicators Concentrate** label). To prevent the possibility of crop tree injury, **DO NOT** apply **SMASH II** when trees are under stress from drought, disease, animal or winter injury, planting shock, or other stresses reducing vigor.

Field-grown Ornamentals

SMASH II may be used to provide control of labeled species in field-grown ornamental production. Established plants listed in **Table 3** are tolerant to **SMASH II** when sprayed as directed. However, not all varieties or strains of plant species listed have been tested. Refer to **Instructions and Restrictions in Production Ornamentals** section in this label before any **SMASH II** application. Unintentional consequences such as crop injury may result because of certain environmental or growing conditions, manner of use, or application. There-fore, before treating a large number of plants, spray a few plants and observe for plant damage before full-scale application. **SMASH II** may be applied as a pre-emergence or directed post emergence application to control weeds listed in **Table 1** and **Table 2**.

SMASH II may be applied in a single application at a maximum rate of 4 fl ozs/A.

- **DO NOT** apply more than 4 fl ozs/A per application.
- **DO NOT** apply more than 16 fl ozs/A per year (0.35 lb topramezone).
- Allow a minimum of 30 days between **SMASH II** applications.

For improved preemergence spectrum, **SMASH II** may be tank mixed with **Pendulum® AquaCap™ herbicide** (see respective label for specific rate information). Post-emergence application of **SMASH II** must include spray additives (see **Additives** section). **SMASH II** may be used in conjunction with herbicides registered for directed postemergence use in ornamentals. Consult the labels of those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in these areas.

The preemergence efficacy of **SMASH II** will improve if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. If **SMASH II** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **SMASH II** will not cause crop injury. Overapplication can result in crop stand loss, crop injury, or soil residue. Uneven application can decrease weed control or cause crop injury.

Disease, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken plants and increase the possibility of plant damage from **SMASH II**.

Instructions and Restrictions¹ in Production Ornamentals (Directed Applications Only)

Site	Application Instructions and Restrictions
Newly transplanted field-grown nursery stock ^{2,3}	<ul style="list-style-type: none"> Use shielded sprayer until plantings have been established for 1 year or more in the field. DO NOT apply until transplants have been watered and soil has been thoroughly settled around transplants. Ensure there are no cracks in the soil where SMASH II could come into contact with the roots. DO NOT apply during bud swell, bud break or at time of first flush of new growth. Direct sprays away from grafted or budded tissue on transplants at all times.
Established container or field-grown nursery stock ^{2,3}	<ul style="list-style-type: none"> DO NOT apply during bud swell, bud break, or at time of first flush of new growth. Apply as a directed spray. If newly budded or grafted rootstock, apply with a shielded sprayer. Ensure there are no cracks in the soil where SMASH II could come into contact with the roots.
Greenhouses, shadehouses, or other enclosed structures	DO NOT apply in greenhouses, shadehouses or other enclosed structures.

¹ Plant only those desirable plant species listed on this label into soil treated the previous season with **SMASH II** or injury may occur.

² Before treating a large number of plants, spray a few plants and observe for 1 to 2 months for plant damage before full-scale application.

³ **DO NOT** treat plants grown for food or feed.

DO NOT use treated plants for food or feed.

The following established ornamentals are tolerant to **SMASH II herbicide** spray when applied as specified. Refer to **Instructions and Restrictions in Production Ornamentals** before application.

Table 3. Tolerant Ornamental Trees

Common Name	Scientific Name
Eucalyptus (Silver-dollar) tree	<i>Eucalyptus cinerea</i>
Fir, Balsam	<i>Abies balsamea</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>
Fir, Fraser	<i>Abies fraseri</i>
Fir, white	<i>Abies concolor</i>
Pine, Austrian	<i>Pinus nigra</i>
Pine, Italian stone	<i>Pinus pinea</i>
Pine, loblolly	<i>Pinus taeda</i>
Pine, Monterey	<i>Pinus radiata</i>
Pine, red	<i>Pinus resinosa</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pine, Virginia	<i>Pinus virginiana</i>
Pine, white	<i>Pinus strobus</i>
Spruce, Colorado blue	<i>Picea pungens</i>
Spruce, dwarf Alberta	<i>Picea glauca 'Albertiana'</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, white	<i>Picea glauca</i>

Selective Weeding

SMASH II may be used for selective weed control in unimproved and native cool-season grass (such as bluegrass and fescue) and select native warm-season grass (such as little and big bluestem) in highway roadsides, utility rights-of-way, railroad crossings, airports, nonirrigation drainage ditches, and other industrial noncropland sites. Refer to **Table 4** for a complete list of tolerant perennial grass species.

For best control, apply as an early post emergence application before weeds reach the maximum size or leaf stage listed in **Table 1** and **Table 2**. Postemergence application of **SMASH II** must include spray additives (see **Additives** section).

For increased residual weed control, use the 4 fl ozs/A rate.

- **DO NOT** apply more than 4 fl ozs/A per application.
- **DO NOT** apply more than 16 fl ozs/A per year (0.35 lb topframezone).
- Allow a minimum of 30 days between **SMASH II** applications.

SMASH II may be tank mixed with other registered products such as **Overdrive® herbicide** to broaden the weed control spectrum.

Perennial Grass Tolerance

Apply **SMASH II** during favorable growing conditions for optimum grass tolerance and weed control. Grass under environmental stress is more likely to show injury from any herbicide application. Rarely, plants under these conditions treated with **SMASH II** may show transient bleaching of the portion of the leaves intercepting the spray application. These symptoms are temporary and occur infrequently; growth is not affected.

Application of **SMASH II** on Bermudagrass will result in bleaching and severe injury. If treating grass not listed in **Table 4. Tolerant Perennial Grass Species**, apply on a small area to test grass response and tolerance.

Table 4. Tolerant Perennial Grasses

Common Name	Scientific Name
Big bluestem	<i>Andropogon gerardii</i>
Centipedegrass	<i>Eremochloa ophiuroides</i>
Chewings fescue	<i>Festuca rubra</i>
Creeping red fescue	<i>Festuca rubra</i>
Eastern gamagrass	<i>Tripsacum dactyloides</i>
Hard fescue	<i>Festuca longifolia</i>
Indiangrass	<i>Sorghastrum nutans</i>
Kentucky bluegrass	<i>Poa pratensis</i>
Little bluestem	<i>Schizachyrium scoparium</i>
Perennial ryegrass	<i>Lolium perenne</i>
Tall fescue	<i>Festuca arundinacea</i>

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Sharda USA LLC (“SHARDA”) or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

SHARDA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SHARDA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND SHARDA'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SHARDA AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

SHARDA and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of SHARDA.

[Arsenal, Chopper, Journey, Overdrive, Pendulum, and Plateau are registered trademarks of BASF.]

AquaCap, Gen2, and PowerLine are trademarks of BASF.]

[Roundup is a registered trademark of Monsanto Technology LLC.]