



# BIG N' TUF™

## WEED & GRASS KILLER

### CONCENTRATE

**ACTIVE INGREDIENT:**  
 Isopropylamine salt of glyphosate\* ..... 25.0%  
**OTHER INGREDIENTS:** ..... 75.0%  
 TOTAL 100.0%  
 \*N-(phosphonomethyl)glycine

**KEEP OUT OF THE REACH OF CHILDREN**  
**CAUTION**



**READ THE ENTIRE LABEL FIRST.**  
**OBSERVE ALL PRECAUTIONS AND**  
**FOLLOW DIRECTIONS CAREFULLY.**

### PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals**  
**CAUTION:** Causes moderate eye irritation. Harmful if absorbed through the skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

| First Aid   |  |
|---|--|
| <b>If swallowed:</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on skin or clothing:</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If inhaled:</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If in eyes:</b>  | <ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. |  |

**Environmental Hazards**  
 Do not apply directly to water. Do not contaminate water when disposing of equipment washwater and rinsate.

**Physical Or Chemical Hazards**  
 Combustible. Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
 Keep children and pets out of treated areas until sprays have dried.

### 1. How It Works

#### Facts and Tips

- Big N' Tuf™ Weed & Grass Killer Concentrate is a multipurpose herbicide designed to control a broad spectrum of emerged annual and perennial weed species. This product will control unwanted species of grass, sedge, broadleaf weeds, and certain woody species around trees, shrubs, fences.
- This product kills plants by inhibiting the production of a substance found only in plants. It enters plants through the sprayed foliage and moves to the roots.
- This product is nonselective and will kill or injure all vegetation contacted by the spray. Do not spray plants or grasses you like — they may die too. Not recommended for spot weed control in lawns since this product kills lawn grasses.
- No soil residual activity — any product not absorbed by plants breaks down into natural materials without moving in or on the soil to untreated plants.
- Plants that have not emerged at the time of application will not be controlled.
- Time to symptoms — best results will be obtained when the weed species are actively growing. Visible effects are gradual — wilting and yellowing, advancing to complete browning and root destruction. Weeds usually yellow and wilt within 2 to 4 days and plant death occurs in 1 to 2 weeks.

**Product Description and Spray Coverage:** This product is a nonselective herbicide that will kill all vegetation contacted. This herbicide kills unwanted plants by inhibiting the production of a substance found only in plants. It enters plants through the sprayed foliage and moves to the roots. Avoid direct spray or drift onto desirable plants, lawn grasses, shrubs and trees. Protect desirable plants and vegetation with a piece of plastic or cardboard. If desirable plants are accidentally sprayed, wash plants with water immediately. Any glyphosate not absorbed by the plant is broken down into natural materials. This product has no soil residual activity and thus will not affect nearby untreated plants.

### 2. Tough Weed Control (Annuals, Perennials, and Brush)

#### CONTROLS WEEDS AND GRASSES INCLUDING:

| Lawn and Turfgrass Species   |  |  |
|--|--|--|
| Big N' Tuf Weed & Grass Killer Concentrate will provide full or partial control (suppression) of these lawn and turfgrass species: |  |  |
| Bahiagrass   | Canarygrass, reed                                  | Kikuyugrass                                      |
| Bentgrass, colonial, creeping and redtop   | Carpetgrass  | Orchardgrass                                     |
| Bermudagrass, common and hybrid  | Centipedegrass                                     | <i>Paspalum spp</i>                              |
| Bluegrass, annual, rough, and Kentucky   | Fescue, chewings, hard, red, tall and sheep        | Ryegrass, annual (Italian), perennial, and hardy |
| Bromegrass, downy and smooth   | Foxtail, green, yellow, creeping, meadow and giant | St. Augustinegrass                               |
| Buffalograss   | Johnsongrass                                       | Zoysiagrass or Japanese lawngrass                |

| Woody Species   |                 |                    |
|---|-----------------|--------------------|
| Big N' Tuf Weed & Grass Killer Concentrate will provide full or partial control (suppression) of these woody species: |                 |                    |
| Alder   | Hickory         | Oak                |
| Blackberry  | Kudzu           | Quaking aspen      |
| Barberry  | Lantana         | Raspberry          |
| <i>Ceanothus spp.</i>   | Multiflora rose | Sumac              |
| Cherry  | Mock orange*    | Trumpet creeper    |
| Coyotebrush   | Manzanita       | Wild blackberry    |
| Dewberry  | Pine            | Western red cedar* |
| Elm   | Poison ivy      | Willow             |
| Elderberry  | Poison oak      |                    |
| Honeysuckle   | Poison hemlock  |                    |

\*Not for use in California

| Annual and Perennial Weed Species   |                     |                  |
|---|---------------------|------------------|
| Big N' Tuf Weed & Grass Killer Concentrate will provide full or partial control (suppression) of these annual and perennial weed species: |                     |                  |
| Artichoke, Jerusalem  | Clover              | Dandelion        |
| Barryardgrass   | Cocklebur           | Evening primrose |
| Beggarweed  | Common groundsel    | Fall panicum     |
| Bittercrass   | Common mullien      | False dandelion  |
| Black medic   | Common ragweed      | Fennel           |
| Broadleaf plantain  | Coral-bead          | Fiddleneck       |
| Buckhorn plantain   | Crabgrass           | Field bindweed   |
| Bull thistle  | Creeping Beggarweed | Field pennycress |
| Burclover   | Creeping Charlie    | Field sandbur    |
| Canada thistle  | Curly dock          | Filaree          |
| Chickweed   | Dallisgrass         |                  |

(cont. on next page)

| <b>Annual and Perennial Weed Species (cont.)</b>  |                        |                    |
|---|------------------------|--------------------|
| Big N' Tuf Weed & Grass Killer Concentrate will provide full or partial control (suppression) of these annual and perennial weed species: |                        |                    |
| Florida pusley  | Pennsylvania smartweed | Texas panicum      |
| Garden spurge   | Pigweed                | Thistle            |
| Goosegrass  | Plantain               | Timothy            |
| Green foxtail   | Prickly lettuce        | Toadflax           |
| Guineagrass   | Primrose               | Torpedograss       |
| Hemp sesbania   | Prostrate spurge       | Trailing lantana   |
| Henbit  | Puncturevine           | Tumble mustard     |
| Horsenettle   | Purple cudweed         | Vaseygrass         |
| Horseradish   | Purple nutsedge        | Velvetleaf         |
| Horseweed/marestail   | Purslane               | Virginia creeper   |
| Iceplant  | Quackgrass             | White clover       |
| Ironweed  | Ragweed                | Whitetop           |
| Knapweed  | Red clover             | Wild barley        |
| Knawel  | Red sorrel*            | Wild carrot        |
| Knotweed  | Redroot pigweed        | Wild geranium      |
| Lampsquarters   | Shepherd's purse       | Wild morningglory  |
| London rocket   | Smartweed              | Wild mustard       |
| Lovegrass   | Smooth catsear         | Wild oats          |
| Mallow  | Smooth pigweed         | Wild sweet potato  |
| Mayweed   | Sowthistle             | Witchgrass         |
| Milkweed  | Spotted spurge         | Yarrow             |
| Mouseear chickweed  | Spurge                 | Yellow nutsedge    |
| Nimblewill  | Sunflower              | Yellow oxalis      |
| Oleander*   | Tansy ragweed          | Yellow Starthistle |
| Oxalis  | Tansy mustard          |                    |
| Pampasgrass   |                        |                    |

\*Not for use in California

**3. Where To Use**

**For General Weed Control and Spot Spraying**

- Use to prepare sites for large plantings, for planting flower beds, for planting fruit trees, ornamentals, vegetables, garden sites and to renovate lawns.
- Along and on sidewalks, gravel/brick walkways, paths, curbs, paved areas (private roads and streets), driveways, parking areas, recreational areas.
- Along ornamental lawns and turfgrass. Edging along/around lawns/ yards and landscape plantings.
- In areas for lawn replacement or lawn renovation/replacement.
- Around or near ornamental/shade trees, fruit and nut trees, grapevines, shrubs, groundcovers, flower beds, mulched landscape beds.
- For garden plot preparation, vegetable plot preparation, and small fruits and berries plot preparation.
- For flower garden preparation.
- Along fences, hedgerows, under fencelines.
- Around rocks, signposts, light posts, or on fringe areas.
- Around or along buildings/structures, foundations, patios, houses, mobile homes, vacant lots, urban areas, domestic outdoor premises, and other areas associated with household or home life.

- Urban areas where total vegetation control is desired.
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots.

**4. When To Use**

Apply to actively growing weeds when the vegetation is green. Use when the wind is calm to avoid drift. Make applications on warm sunny days when the daytime temperature is above 60°F. Weed control is accelerated by warm sunny weather. Weeds usually begin to wilt within hours with complete kill in 1 to 2 weeks. Rain or watering 2 hours after application will not wash away effectiveness. Hard-to-control weeds and thick lawn grasses (like bermudagrass) may require a second application.

**5. How To Use**

This product is formulated for spot treatment of individual weeds and grasses or for treatment of large areas as instructed on this label.

- To apply this product use any of the following equipment: Plastic, aluminum or stainless steel tank sprayer; Ortho Dial' N Spray®; Ortho Spray-Ette®; A hose end sprayer recommended for herbicides; Hand-trigger pump sprayer.
- **Do not use or store in galvanized or unlined steel sprayer, or through any irrigation system or sprinkling can.**
- Use a tank type sprayer with a coarse spray nozzle for spot treatments.
- Use the Ortho Dial 'N Spray® or other hose end sprayer to treat large areas such as for lawn renovation or to prepare sites for planting flower beds or vegetable gardens.
- Apply to evenly and thoroughly wet weeds and grasses.
- Treated weeds begin to wilt in about 2 to 4 days with complete kill of the weed including the root in 2 to 4 weeks.
- This product does not move or build up in the soil to affect untreated plants growing nearby.
- Ornamental plantings can be made 3 days after treatment. Vegetable gardens can be seeded or planted 3 days after treatment.
- For lawn replacement, lawns may be replanted 1 week after spraying.
- Measure the correct amount of this product and water to add to sprayer from the directions below.

**For General Weed Control:** Use near fences, in paths, patios, sidewalks, curbs and driveways, around ornamental trees, shrubs, flower beds and plantings, around buildings. Control weeds in brick and gravel walks. Use for trimming and edging landscapes. NOT recommended for spot weed treatment in lawns, since glyphosate kills all green plants, including lawn grasses.

**Spot Treatments:** Spray directly on actively growing weeds in and around flower beds, ornamental trees, fruit and nut trees, grapevines, shrubs, fences, driveways and walkways. Do not spray fruit and nut trees or grapevines directly.

**Table 1. Spray Preparation With Hose End Sprayers and Tank Sprayers**

| Sprayer Type                             | Mixing Instructions for Annuals or General Weed Control                                       | Mixing Instructions for Tough Weed Control: Perennial Weeds                                  | Treat                                   |
|--|---|--|---|
| Standard Tank Sprayer                    | Use 2.25 fl.oz. of This product in 1 gallon of water.   | Use 4.5 fl.oz. of This product in 1 gallon of water.   | 300 sq. ft. (30 ft x 10 ft)             |
| Ortho Dial 'N Spray®<br>Hose End Sprayer | Add 2.25 fl.oz. of This product to sprayer jar. DO NOT ADD WATER. Set dial to 3 oz and apply. | Add 4.5 fl.oz. of This product to sprayer jar. DO NOT ADD WATER. Set dial to 5 oz and apply. | 300 sq. ft.                             |
| Ortho Spray-Ette®<br>Hose End Sprayer    | Add 8 fl.oz. of This product to sprayer jar. Fill to 4 gallon mark.                           | Add 16 fl.oz. of This product to sprayer jar. Fill to 4 gallon mark.                         | 1200 sq. ft. (30 ft x 40 ft)            |
| Hand Trigger Sprayers                    | Use 1 tbs (0.5 fl.oz.) of This product in 24 fl.oz. of water.                                 | Use 2 tbs (1.0 fl.oz.) of This product in 24 fl.oz. of water.                                | Use for spot treatments or single weeds |

Equivalent Measurements: 1 tablespoon (Tbs) = 3 teaspoons (tsp); 1 fluid ounce (fl.oz.) = 2 tablespoon (Tbs.); 2 fluid ounces (fl.oz.) = 4 tablespoons (Tbs)

**For Landscaping**

- Prepare areas for planting of ornamentals, trees, shrubs, desert landscapes, rock gardens, flower beds or similar plantings.
- Delay mowing, tilling, or disturbing the treated vegetation for at least 7 days after application of this product for the best results. However, if the treated vegetation is not disturbed, planting or transplanting of trees, flowers, shrubs, bedding plants may be done at 1 day after application.

**For Wildlife Areas Site Preparation**

- Prepare areas for planting wildlife food.
- Control undesirable and exotic plants to allow for recovery or planting of native species.

- Make treatments to remove unwanted plants. Take care to keep spray off desirable plants.

**For Brush Control  
Foliar Sprays for Brush**

- Cut back brush that is taller than 5 feet and then spray regrowth.
- For maximum activity, weeds should be growing vigorously at the time of the postemergent applications. The most favorable period for treatment occurs after full leaf stage in the spring and continues into early summer. Brush treated in the late fall may not be fully controlled.
- Spray uniformly the foliage of the vegetation to be controlled. Apply for full coverage and thorough brush/weed contact.



**For Gardens (Vegetables, Herbs, Small Fruits and Berries):**

- This product may be applied before planting or transplanting of vegetables (garden crops), herbs and small fruits and berries.
- This product may be used as a broad spectrum postemergent herbicide prior to planting to control annual and perennial weeds including field bindweed, Johnsongrass, or dallisgrass.
- Spray the undesirable vegetation on a spray-to-wet basis. Uniform and complete spray coverage of all existing vegetation is required.

**Reseeding and Replanting in Sprayed Areas**

**Ornamentals and Flowers:** Reseed or replant one day after application.

**Vegetables:** Wait three days before planting or transplanting the vegetables listed below:

|                 |                     |               |
|-----------------|---------------------|---------------|
| Beans           | Honeydew melon      | Pepper        |
| Beet greens     | Honeyball melon     | Persian melon |
| Broccoli        | Horseradish         | Potato        |
| Brussels sprout | Jerusalem artichoke | Pumpkin       |
| Cabbage         | Kale                | Radish        |
| Cantaloupe      | Kohlrabi            | Rhubarb       |
| Carrot          | Leek                | Rutabaga      |
| Cauliflower     | Lentils             | Spinach       |
| Casaba melon    | Lettuce             | Summer squash |
| Chard (Swiss)   | Mango melon         | Sweet potato  |
| Chicory         | Melons              | Tomatillo     |
| Collards        | Muskmelon           | Tomato*       |
| Corn            | Mustard greens      | Turnip        |
| Crenshaw melon  | Okra                | Watercress    |
| Cucumber        | Onion               | Watermelon    |
| Eggplant        | Rape greens         | Winter squash |
| Endive          | Parsley             | Yams          |
| Garlic          | Parsnips            |               |
| Gourds          | Peas                |               |

\*Tomatoes planted from seed only. Wait 30 days for transplants. For vegetables not listed or for tomato transplants, wait 30 days before planting.

**Small Fruits and Berries:** Blackberry, black raspberry, blueberry, boysenberry, currant, dewberry, elderberry, gooseberry, huckleberry, loganberry, olallieberry, and red raspberry may be planted by seed, rooted cutting, or transplant 7 days after spraying This product. Wait 30 days after application before planting of all other unlisted small fruits and berries.

**Fruit Trees, Nut Trees, Caneberries, or Grapevines:** If this product is used to control weeds around fruit or nut trees, caneberries or grapevines, wait 21 days before harvesting and eating the fruits or nuts.

Use the following table to determine the amount of This product to mix with water for use in gardens (vegetables, herbs, small fruits and berries). Close cap tightly after use.

| Sprayer Type                             | Mixing Instructions for Annuals or General Weed Control  | Mixing Instructions for Tough Weed Control: Perennial Weeds                                     | Treat                                   |
|--|--|---|---|
| Standard Tank Sprayer                    | Use 2.25 fl.oz. of This product in 1 gallon of water.  | Use 4.5 fl.oz. of This product in 1 gallon of water.  | 300 sq. ft.<br>(30 ft x 10 ft)          |
| Ortho Dial 'N Spray®<br>Hose End Sprayer | Add 2.25 fl.oz. of This product to sprayer jar.<br>DO NOT ADD WATER. Set dial to 3 oz and apply. | Add 4.5 fl.oz. of This product to sprayer jar.<br>DO NOT ADD WATER. Set dial to 5 oz and apply. | 300 sq. ft.                             |
| Ortho Spray-Ette®<br>Hose End Sprayer    | Add 8 fl.oz. of This product to sprayer jar. Fill to 4 gallon mark.                              | Add 16 fl.oz. of This product to sprayer jar. Fill to 4 gallon mark.                            | 1200 sq. ft.<br>(30 ft x 40 ft)         |
| Hand Trigger Sprayers                    | Use 0.5 fl.oz. (1 tbs) of This product in 24 fl.oz. of water.                                    | Use 1 fl.oz. (2 tbs) of This product in 24 fl.oz. of water.                                     | Use for spot treatments or single weeds |

**Cleaning Application Equipment:** To clean sprayer after use, rinse spray equipment thoroughly and flush all sprayer components with water 3 times after use. Spray rinsate on bare soil or gravel surface. Do not apply rinsate to treated weeds. Only after a very thorough cleaning can the sprayer or spray equipment be used for application of other products.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in a locked storage area inaccessible to children and domestic animals. Protect container from freezing.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**LIMITED WARRANTY AND DISCLAIMER**

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