**Big N Tuf Weed & Grass Killer Concentrate**

**Covers up to 4,260 sq. ft.**

**Active Ingredient:**
Isopropylamine salt of glyphosate* . . . . . . . . . . 25.0%

**Other Ingredients:** . . . . . . . . . . . . . . . . . . . . . . . 75.0%

TOTAL 100.0%

* N-(phosphonomethyl)glycine

**See attached booklet for complete Precautionary Statements and Directions for Use (including First Aid and Storage and Disposal).**

**Keep out of reach of children.**

**Caution**

**Net Contents:**
ONE QUART (32 FL. OZ.)

954/9-2016
### Site Major Weed Species

<table>
<thead>
<tr>
<th>Site Major Weed Species</th>
<th>Amount of Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlling all annual and perennial grasses and weeds</td>
<td>1.3 to 4.0</td>
</tr>
<tr>
<td>Controlling annual wintergreen, perennial wintergreen, and other perennials</td>
<td>4.0 to 7.0</td>
</tr>
<tr>
<td>Controlling many annual and perennial grasses and weeds</td>
<td>1.3 to 2.6</td>
</tr>
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### Mixing Instructions for Tough (fl.oz./1000 sq.ft.)

- **Johnsongrass and ryegrass, annual, perennial**: 1.3 to 4.0, < 1
- **Fescues, chewings, hard, red, sheep**: 4.0 to 7.0, < 1
- **Many annual and perennial grasses and weeds**: 1.3 to 2.6, 3.5% vol/vol

### General Handling Instructions

- **For best results**, apply in spring or fall when daytime temperatures are at least 60°F.
- **Bermudagrass, nutsedge, torpedograss and deep rooted perennials** may require a second treatment in 5 to 7 days.
- **Use** Big N’ Tuf™ to remove the existing lawn and kill weeds and grasses. Uniform and complete spray coverage of all existing vegetation is required.
- **Cut trees and brush close to the soil surface**. Apply this to the freshly cut surface of the stump.
- **Cut stump treatments** are effective on stumps with diameters larger than 3 to 4 inches in diameter.
- **Wait three days** before planting or transplanting the vegetables listed below.
- **Do not disturb soil or underground plant parts** before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm season grasses, such as Bermuda, bentgrass, zoysiagrass and zoysia, delay planting until regrowth has been controlled. For cool season grasses, such as fescues, chewings grasses, bentgrass and bluegrass, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat applications are necessary, sufficient regrowth must be attained prior to application. For cool season grasses, delay planting until regrowth has been controlled. Where repeat applications are necessary, sufficient regrowth must be attained prior to application. For cool season grasses, delay planting until regrowth has been controlled.
- **Apply** Big N’ Tuf™ to the freshly cut surface of the stump or spray treated surface with a sprayer or with a tank sprayer. 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.
- **Spraying and techniques for brush control**:
  - **Sprayers and techniques** for brush control:
    - **Hand Trigger Sprayer**
    - **Ortho Dial ‘N Spray®**
    - **Tank Sprayer**
  - **If the lawn is dry**, water lawn before applying Big N’ Tuf™. Water again 2 to 3 days after application.
  - **For best results**, apply in spring or fall when daytime temperatures are at least 60°F.
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### Site Summary

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### Table of Spray Preparation for Perennial Weeds, Vines, and Brush with Handheld and High Volume Sprayers and Techniques

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### Precautions, Restrictions & Comments

- **Limitations and restrictions** must be followed closely to ensure proper use and compliance with local and state regulations.
- **Precautions** must be taken to avoid injury to humans, pets, and the environment.
- **Restrictions** include the use of Big N’ Tuf™ on certain crops and vegetation.
- **Comments** provide additional information on the use and handling of Big N’ Tuf™.

### Website

For General Weed Control:
trees, grapevines, shrubs, fences, driveways and walkways. Do not spray fruit and nut trees or grapevines directly.
shrubs, flower beds and plantings, around buildings. Control weeds in brick and gravel walks. Use for trimming and edging
This product is formulated for spot treatment of individual weeds and grasses or for treatment of large areas as instructed
5. How To Use
Weeds usually begin to wilt within hours with complete kill in 1 to 2 weeks. Rain or watering 2 hours after application will
on warm sunny days when the daytime temperature is above 60°F . Weed control is accelerated by warm sunny weather.
3. Where To Use
2. Tough Weed Control (Annuals, Perennials, and Brush)
Facts and Tips
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
CAUTION:
Physical Or Chemical Hazards
Environmental Hazards
materials. This product has no soil residual activity and thus will not affect nearby untreated plants.
and trees. Protect desirable plants and vegetation with a piece of plastic or cardboard. If desirable plants are accidentally

• Make treatments to remove unwanted plants. Take care to keep spray off desirable plants.
• Delay mowing, tilling, or disturbing the treated vegetation for at least 7 days after application of this product for the
• This product kills plants by inhibiting the production of a substance found only in plants. It enters plants through the

• Use 1 tbs (0.5 fl.oz.) of This product in 24 fl.oz. of water.
1. How To Mix

• To apply this product use any of the following equipment: Plastic, aluminum or stainless steel tank sprayer; Ortho

• Measure the correct amount of this product and water to add to sprayer from the directions below.
• 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.
• Apply to evenly and thoroughly wet weeds and grasses.

• Time to symptoms — best results will be obtained when the weed species are actively growing. Visible effects are
• This product is nonselective and will kill or injure all vegetation contacted by the spray. Do not spray plants or grasses
• This product will control unwanted species of grass, sedge, broadleaf

• Big N’ Tuf™ Weed & Grass Killer Concentrate is a multipurpose herbicide designed to control a broad spectrum of

• Along ornamental lawns and turfgrass. Edging along/around lawns/yards and landscape plantings.

• Big N Tuf Weed & Grass Killer Conc (954) ETL (11-2016).qxp  11/15/16  7:58 AM  Page 1

spraying or flushing of sprayed area and treated plant. Do not irrigate treated areas for 24 hours after applying this product.

• For the application of this product, refer to the mixing instructions and illustrations on pages 3 and 4 of this

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**For Brush Control**

**Table 3. Spray Preparation for Lawn Renovation and Lawn Replacement Using Power Spray Equipment**

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<thead>
<tr>
<th>Sprayer Type</th>
<th>Ortho® Dial 'N Spray®</th>
<th>Ortho Spray-Ette®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Pressure (psi)</strong></td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>Spray Volume (gpm)</strong></td>
<td>1.0</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Spray Cap Size (inch)</strong></td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Spray Pattern</strong></td>
<td>Flat</td>
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**Table 4. Spray Preparation with Hose End Sprayers and Tank Sprayers for Vines and Perennial Weed Control**

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**For Cut-Surface Stump Treatment:**

EPA EST. NO. 2217-KS-2 cannot be varied by any written or verbal statements or agreements at the point of sale or elsewhere.

The product is stable in its intended container under normal storage conditions. The product does not provide residual control. Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical cutting or mounding of the soil are necessary. Sufficient regrowth must be attained prior to application. For warm season grasses, such as zoysiagrass, kikuyugrass, black grama, bermudagrass, and bahiagrass, delay application to ensure rapid regrowth. For warm season grasses, such as zoysiagrass, kikuyugrass, black grama, bermudagrass, and bahiagrass, delay application to ensure rapid regrowth.

Spray uniformly the foliage of the vegetation to be controlled. Apply for full coverage and thorough brush/weed contact. Cut back brush that is taller than 5 feet and then spray regrowth. Wait three days before planting or transplanting the vegetables listed below:

- **Vegetables:**
  - Cauliflower
  - Carrot
  - Endive
  - Horseradish
  - Honeyball melon

**Reseeding and Replanting in Sprayed Areas**

Reseed or replant one day after application. To clean sprayer after use, rinse spray equipment thoroughly and flush all sprayer parts. To dispose of used sprayer parts, contact your local solid waste agency for disposal information. Animals. Protect container from freezing.

**STORAGE AND DISPOSAL**

Nonrefillable container. Do not reuse or refill this container. **Do not contaminate water, food, or feed by storage and disposal.**

**LIMITED WARRANTY AND DISCLAIMER**

This product is designed and intended to control weeds in turf, ornamental, and pasture and range lands. Read all labels, directions, warnings, and cautions before using this product. Do not use this product for any purpose other than that indicated on the label. Call your local solid waste agency for disposal information.
**First Aid**

**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 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 inhaled:**
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

**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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.