RISK/BENEFIT INFORMATION
FOR PESTICIDE APPLICATIONS

COMPANY NAME: FOEGLEY LANDSCAPE INC. PESTICIDE: TENACITY

NOTICE: *Please ask your applicator about special preparations you may need to make (yard, house, pool, etc.) prior to application, and other precautionary measures specific the pesticide products applied.*

Definition of a Pesticide

A pesticide is any substance or mixture of substances intended to control pests. The word "pesticide" is an umbrella term for many different types of products that control a wide range of pests. Pests commonly found include weeds, insects, diseases, mites, and rodents. Pesticides designed to control these pests are called herbicides, insecticides, fungicides, miticides, and rodenticides. Another group of pesticides called plant growth regulators is used to manage the growth of plants in the landscape.

State and federal laws require that pesticides must be applied according to label directions. Labels direct users as to how, where, and at what rate the material must be applied. Upon request, your applicator will supply you with a copy of the label(s) for the product(s) applied.

How Pesticides Work

Products intended for use on your property are applied as a liquid, dust, aerosol, granule, or bait and are generally active for a few minutes to a few months. Some compounds control pests on contact by damaging the physical structure of the pest. Other compounds become active only after they are absorbed or ingested, by interfering with physical development or the reproduction ability of the pest. The pesticide product label contains specific information on how to control targeted pests. **All pesticides must be applied in accordance with label directions.**

Pesticides may be effective against a large class of organisms or they may be specific to a particular organism. This means that many times, applicators can choose an effective pesticide or pest control strategy that will minimize potential impacts to humans, pets and other non-target organisms.

Why Pesticides are Used

Pesticides are a tool people use to protect crops, homes, animals, structures, or their landscape plants from pest damage. Examples are the protection of buildings from termites, lawns from weed and insect damage, and indoor environments from invasions by insects and rodents. They are also used to control mosquito populations, control disease vectors for public health concerns, protect food crops, and for weed control in lakes and ponds.

Type of Compound Used

Active Ingredient: Mesotrione* 40.0%
Other Ingredients: 60.0%
Total: 100.0%

General Toxicity Information

Toxicity is a general term used to indicate the adverse effects produced by a pesticide. Understanding the potential health risks from pesticides requires knowledge of the exposure and the toxicity of the compound.

Exposure: Pesticides can enter the body by ***ingestion, inhalation, or absorption through the skin***. Exposure occurs most frequently by absorption to the skin. One of the most effective ways to reduce risk is to reduce any potential exposure by restricting access to the treatment area.

There are two broad classifications of pesticides – ***general use*** and ***restricted use***. These are United States Environmental Protection Agency (EPA) designations used to determine who may purchase and use the many kinds of pesticides available. General use pesticides are usually considered to have a lower toxicity or risk than restricted use pesticides, and have fewer restrictions regarding who may purchase or use the products. For example, all of the pesticide products that homeowners may purchase are general use pesticides. The majority of the products that are routinely used on your property and yard are also general use pesticides.

Restricted use pesticides can only be purchased and used by applicators that are certified by the State of Michigan, many of who receive additional professional training. Only in specific instances would these kinds of products be used on your property. Please refer to the section of your customer paperwork or invoice that shows which products were used at the time of application. (If you have any questions as to the type or toxicity of the products used on your property, please contact the manufacturer indicated on the pesticide label, or contact the applicator).

The Amount or Rate of Pesticide Applied

TANK MIXES

Preemergence Application - Apply Tenacity at 4-8 fl. oz. per acre in at least 30 gallons of water per acre prior to weed seed germination. Do not exceed 5 fl. oz. per acre per application to perennial ryegrass or fine fescues or mixed stands that contain greater than 50% perennial ryegrass and/or fine fescue. Do not exceed 4 fl. oz. per acre to St. Augustinegrass sod. Make application close to anticipated weed seed germination. Tenacity should be combined with a preemergence herbicide such as Barricade 65WG Herbicide for extended control of key annual monocot weeds such as crabgrass and foxtail. In established turf, Tenacity is more effective as a postemergence application unless combined with another soil active herbicide.

New Seedings/New Lawn Establishment – Apply Tenacity at 5-8 fl. oz. per acre in at least 30 gallons of water per acre prior to seeding or post seeding of tolerant turfgrass species listed on this label, except fine fescue. Tenacity may reduce density of fine fescue seedings. Tenacity can be used on grass seed blends that contain less than 20% by weight of hard or fine fescue. Tenacity will control many monocot and dicot weeds that compete with and slow the establishment of the turfgrass stands. Apply at grass seeding or close to seeding for best performance. Avoid spraying on newly germinated turfgrass plants. Wait until the newly germinated turf has been mowed two times or four weeks after emergence (whichever is longer) before making a postemergence application.

Postemergence Application – Apply Tenacity at 4-8 fl. oz. per acre in at least 30 gallons of water per acre. Apply with a NIS type surfactant. A repeat application at two to three weeks may be required for adequate weed control. Weed control is most effective on young, actively growing weeds. Efficacy will be reduced under moisture stress or from applications to mature weeds.

Control of bentgrass (Agrostis spp.) and nimblewill (Muhlenbergia schreberi) – Apply Tenacity at 5 fl. oz. per acre in at least 30 gallons of water per acre at two to three week interval for up to three applications. Apply with a NIS surfactant. Bentgrass control may be more effective in the late summer/ early fall just prior to onset of renewed bentgrass growth, than spring/early summer applications. St. Augustinegrass (sod uses only) and Centipedegrass, if Tenacity is tank mixed with AAtrex (atrazine) or Princep (simazine) do not exceed 4 fl. oz. of Tenacity and 0.5 lb. active ingredient per acre of atrazine or simazine. Apply combination to established turf only. See AAtrex and Princep labels for restrictions.

Dormant bermudagrass applications only – Apply Tenacity at 5 fl. oz./A to control winter weeds

(listed in the **WEEDS CONTROLLED** Table) on dormant bermudagrass. Repeat application in 2 to 3 weeks. Applications made to semi-dormant turf will cause whitening of the bermudagrass.
Spot Application of Tenacity (apply at 1 gallon per 1000 sq. ft.)

Environment which Pesticide is Applied

USE SITES Tenacity may be used for weed control in turfgrass species listed on this label in commercial and residential sites. Use sites include non-crop areas: golf courses, sod farms, athletic fields, parks, residential and commercial properties, cemeteries, airports, and lawns. Do not use on golf course putting greens and maintain a five-foot buffer between treated areas and putting greens.

Common Sense Precautionary Measures and Site Preparation

It is important to discuss site preparation and precautionary measures with your applicator. Additionally,

- **DO NOT** enter the treatment area until the time period provided by/posted by the applicator has elapsed.
- The product applied may have a specific re-entry or pre-harvest interval during which you may **NOT** enter the area or harvest the crop.
- For indoor applications – put away all food items, children's toys, and clothing. Cover fish tanks, remove pets, and perform any additional tasks as outlined for the specific application by your applicator.
- For outdoor applications – put away children's toys and any clothing that may be outside drying, remove pets, discard water for pets and water in birdbaths, close windows, move or place your vehicles in the garage, and make certain that applicators understand what areas, such as children's play areas and home gardens, should **NOT** be treated.
- Additional precautionary measures may need to be taken to limit exposure for sensitive individuals such as: infants, small children, pregnant women, and senior citizens; persons on prescription medications; and persons with medical conditions such as respiratory conditions or immune system concerns.

Environmental Fate of Pesticides

Exposure to light, heat and other agents in the environment cause pesticides to deteriorate. The amount of time that it takes to break down the pesticide depends on the temperature, humidity, light, moisture conditions, and other environmental factors. As a result, degradation times are highly variable depending on the compound and the environment in which it was applied. Generally, your applicator will select those pesticides that are the most effective and the least persistent. Any areas on your property that may be of specific concern should be to the attention of the applicator.

If you encounter an unusual reaction following a pesticide application, immediately wash with soap and water and consult with a physician. It is important to provide the doctor with any information you may have concerning the pesticides used. Refer to the section of your customer paperwork or invoice that shows which products were used at the time of application. Additional emergency information about the pesticide may be obtained by contacting the **National Poison Control Center at 1-800-222-1222**, or the **National Pesticide Information Center at 1-800-858-7378** or **www.npic.orst.edu**.