WARNING KEEP OUT OF THE REACH OF CHILDREN

# BROWNDOWN

To enhance the knockdown of various contact herbicides in orchards, vineyards, forestry, and onions for volunteer potato management. Assists more rapid brownout, faster total kill and improved brownout of certain knockdown herbicides.

# READ THE LABEL COMPLETELY BEFORE APPLYING

BROWNDOWN ZAP contains 36 g/litre OXYFLUORFEN in the form of an emulsifiable concentrate.

Also contains: >40g/litre alkyl aryl sulphonate, <700 g/litre proprietary co-solvent, <200 g/litre lactam-based solvent

Approved pursuant to the HSNO Act 1996. Approval Code HSRO02508.



# **AGRECOVERY**

Rural Recycling Programme



Etec Crop Solutions Limited PO Box 51584, Pakuranga Auckland, New Zealand Phone: 0800 100 325 www.etec.co.nz



## PLEASE READ THE LABEL COMPLETELY BEFORE USE

FCOTOXIC - AQUATIC ORGANISMS



HSNO Classifications: 3.1D, 6.1E, 6.3A, 6.5B, 6.8A, 6.9B, 8.3A, 9.1A, 9.2B

Combustible liquid

May be harmful if swallowed.

May cause skin irritation.

May cause an allergic skin reaction

May damage fertility or the unborn child.

May cause damage to the liver through prolonged or repeated exposure.

Causes serious eve damage.

Very toxic to aquatic life.

Toxic to the soil environment.

### PRECAUTIONS

Keep away from flames and hot surfaces.

Store in original container, tightly closed, away from foodstuffs

When handling, mixing, or applying wear safety goggles and PVC gloves.

Avoid contact with skin and eyes, and inhalation of spray mist. Wash splashes of concentrate from skin or eyes immediately.

If clothing becomes contaminated with product, remove clothing immediately.

DO NOT eat, drink or smoke while using.

Wash hands and face before eating, drinking or smoking and after work.

Wash protective clothing after use.

Apply with well-maintained and calibrated spray equipment.

Application and storage should be as described in the Management of Agrichemicals NZS8409

DO NOT carry on a passenger service vehicle.

Avoid contamination of any water supply with chemical or empty container.

CONTAINER DISPOSAL: Ensure the container is empty. Triple rinse container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

PRODUCT DISPOSAL: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

FIRST AID: If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin, hair or eye contact occurs remove contaminated clothing and flush skin, hair and/or eyes with running water for several minutes. DO NOT scrub the skin. If splashed in eyes, wash out immediately with water. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

Wear suitable protective clothing including face shield, impervious gloves and boots, Prevent the product or spilled material from entering water bodies. Absorb liquid spills with inert material such as earth or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of safely,

BROWNDOWN ZAP is a proprietary blend of surfactants and activating agents designed solely for use with certain herbicides to enhance their activity in specific situations.

BROWNDOWN ZAP improves wetting and penetration of the herbicide by affecting the waxy cuticle of certain weeds. BROWNDOWN ZAP provides rapid penetration giving improved rainfastness without affecting the ability of the herbicide to translocate throughout the plant, BROWNDOWN ZAP is most effective on small, actively growing weeds and is NOT recommended for use on established woody weeds or old, mature plants.

### DIRECTIONS FOR USE

Do NOT use BROWNDOWN ZAP with selective herbicides, unless recommended on this label, as selectivity may be altered or lost. Do NOT use with fungicides, insecticides or plant growth regulators AS DAMAGE TO THE PLANT WILL OCCUR.

THE HERBICIDE LABEL TAKES PRECEDENCE OVER THE BROWNDOWN ZAP ADJUVANT LABEL.

ALL PRECAUTIONARY AND MIXING INSTRUCTIONS ON THE HERBICIDE LABEL MUST BE FOLLOWED

Mixing: Follow the mixing instructions on the individual labels. If a drift retardent, or a water conditioner for hard water, such as X-Change®1, is being used, follow the mixing sequence on the respective labels.

Water rates: Use the water rates recommended on the respective herbicide labels.

### RECOMMENDATIONS

# 1. FORESTRY (Radiata Pine)

Add BROWNDOWN ZAP, at the rate of 1-2 litres per hectare, to the recommended rate of terbuthylazine®1 or a terbuthylazine/ hexazinone mixture, for Radiata Pine tree release. BROWNDOWN ZAP will assist in the control of gorse and broom seedlings up to 30 cm in height and will improve the overall speed and total kill of weeds including marginal weeds such as sorrell and grasses. Take care with other forestry species. Good results have been obtained with terbuthylazine over Douglas Fir and Larch but not all species have been tested.

# 2. ONIONS (for volunteer potato suppression)

Add BROWNDOWN ZAP, at 250 - 500 mls/ hectare, to 300 - 450 mls/ha of TOTRIL® SUPER when onions have at least 2 true leaves and potatoes are, preferably, under 20 cm in height. Use the lower rates of both products on small, or soft growing onions. Some spotting on the onions may occur, but this is shortlived and does not affect yield. This mixture will only kill the growing points of the potato, reducing competition. Best results are obtained by following a Twin- Star® or a Twin-Star/ Bladex®1 tank mixture, 5-7 days later, with BROWNDOWN ZAP/Totril Super at the above rates, Repeat treatments will be required to maintain suppression of newly emerging potato plants.

### 3. GLYPHOSATE PRODUCTS

BROWNDOWN ZAP, when used as directed with the recommended label rates of glyphosate, will give an initial brownout on most weed leaves and stems within 3 to 7 days of application, BROWNDOWN ZAP will not interfere with the translocation properties of glyphosate. Some weeds, e.g., speedwells, cress, and certain grasses, etc., may not show an initial scorch but earlier weed kill should still be obtained.

- a) Orchard weed strips, non-crop uses (fencelines, Total Vegetation Control, driveways, etc.): For a quick brown out, faster weed kill and short rainfast period, apply 0.5 1 litre/hectare BROWNDOWN ZAP in conjunction with the recommended label rate of glyphosate products. Use the higher rate on large, older weeds, BROWNDOWN ZAP will assist glyphosate to control mallows, tall willow herb, cleavers and nettles.
- b) Conservation Tillage: For a faster brown out and overall kill, apply 500 mls/ha **BROWNDOWN ZAP** with the recommended label rates of glyphosate. Observe all glyphosate label instructions.
- c) Pre-plant or pre-emergent uses in vegetables: Add BROWNDOWN ZAP at 500mls/ ha to the recommended rate of glyphosate.

DO NOT EXCEED 500 ML/HA AND DO NOT USE PRE-PLANT AS WELL AS PRE-EMERGENCE TO ANY ONE CROP.

BROWNDOWN ZAP SHOULD NOT BE USED EITHER PRE-EMERGENT OR IMMEDIATELY PRE-PLANTING TO ANY VEGETABLE CROP UNLESS PREVIOUS EXPERIENCE HAS PROVEN IT TO BE SAFE. Crops tested to date are:- (pre-emergent) Potatoes: (pre-planting) Broccoli, Cabbage, Cauliflower,

DO NOT USE PRE-PLANT OR PRE-EMERGENT TO ONIONS OR CARROTS AS TOO MANY FACTORS AFFECT SELECTIVITY FOR CONSISTENT CROP SAFETY.

BROWNDOWN ZAP will improve the speed of kill and the overall control of clovers and other weeds, particularly in less than optimum conditions. Add BROWNDOWN ZAP at 0.5.1 litre/ha to the recommended label rate of Buster, Observe all precautions on the Buster label.

- 1. BROWNDOWN ZAP is not recommended for use with glyphosate for the control of brushweeds, bracken, brambles and other established perennial weeds.
- 2. In the event of rainfall shortly after spraying, necessitating a re-spray, do not re-apply **BROWNDOWN ZAP**.
- 3. Do not exceed the recommended rates of BROWNDOWN ZAP. At higher than recommended rates, particularly under cold, wet, and cloudy weather, BROWNDOWN ZAP can have a short residual effect in the soil.

### STORAGE

Store in a cool dry place avoiding temperatures above 35°C.

### SAFETY DATA SHEET

If additional hazard or safety information is required, refer to the Safety Data Sheet. For a copy visit our website at www.etec.co.nz

Please read these conditions of supply before buying and using. If these conditions are unacceptable, return at once unopened.

# **EXCLUSION OF LIABILITY: PLEASE READ**

To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer. Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods,

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IN A TRANSPORT EMERGENCY DIAL 111, POLICE OR FIRE BRIGADE FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY. CALL 0800 CHEMCALL (0800 243 622)

