

HARMFUL, ECOTOXIC
KEEP OUT OF REACH OF CHILDREN



TWISTER®

HERBICIDE

Contains: 500 g/litre isoproturon in the form of a suspension concentrate

**Selective post-emergence herbicide for grass and broadleaf
weed control in wheat and winter sown barley**



PLEASE READ THE ENTIRE LABEL BEFORE USE. SHAKE OR STIR WELL BEFORE USE.

HAZARD CLASSIFICATION: 6.1E, 6.5B, 6.9B, 9.1A, 9.2A

APPROVED HANDLER: This product must be under the control of an approved handler during use. See MSDS for details.

RECORD KEEPING: Records of use must be kept under certain circumstances. See MSDS for details.

WARNING: This product may be harmful if swallowed, inhaled or absorbed through the skin. May cause skin sensitization from prolonged skin contact. May cause target organ damage from repeated oral exposure at high doses.

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 or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT scrub the skin. If splashed in eyes, wash out immediately with water for at least 15 minutes. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

PERSONAL PROTECTION: Avoid skin and eye contact and inhalation of spray mist. When mixing or applying wear waterproof gloves, eye protection, boots and overalls. Do not eat, drink or smoke while using. Wash splashes of concentrate from skin immediately. Ensure adequate ventilation when handling the concentrate. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

ECOTOXIC: Very toxic to aquatic organisms. Avoid contamination of any waterways with product or empty container. Very toxic to the soil environment via herbicidal properties.

STORAGE: Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

SHELF LIFE: When stored appropriately this product should show no significant degradation for 3 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

DISPOSAL: Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved disposal facility.

MATERIAL SAFETY DATA SHEET: Additional information is listed in the MSDS available from Zelam Ltd or www.zelam.com.

Approved pursuant to the HSN0 Act 1996, No: HSR000246. See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No: P006095 See www.foodsafety.govt.nz for registration conditions.

GENERAL INFORMATION: Twister is a herbicide with residual activity, that is absorbed into susceptible plants via the leaves and roots where it interferes with photosynthetic electron transport.

SUSCEPTIBLE WEEDS: Chamomiles, charlock, chickweed, fathen, groundsel, nettle, annual poa, shepherds purse, and spurrey (yarr). Wild oats (suppression only) and ryegrass seedlings (post emergence only),

Weeds not controlled: Black nightshade, cleavers, fumitory, henbit, sow thistles, and speedwells.

DIRECTIONS FOR USE:

For weed control in winter and spring sown wheat and winter sown barley. Do not apply to oats or durum wheat.

RATE /HA	CRITICAL COMMENTS
2 to 3 litres	Apply between early post-emergence and first node. Best control will be achieved with application to actively growing weeds at the 1-2 leaf stage. Use the higher rate on heavy soils or soils high in organic matter. May be tank mixed with Quantum (diflufenican), bromoxynil, mecoprop or chlorsulfuron to give improved control of certain weeds.

MIXING: Pour the correct amount of Twister into the partly filled tank, and while agitating add the remainder of the water. Maintain agitation during spraying and any stoppages. Only mix sufficient spray for immediate use and avoid storing.

ADJUVANTS: Wetting agents are not normally required and should be avoided when tank mixing with other herbicides especially emulsifiable concentrates.

COMPATIBILITY: Twister is compatible with Quantum (diflufenican), chlorsulfuron, bromoxynil and mecoprop. Tank mixtures with other herbicides may result in crop damage. May be used in mixtures with commonly used insecticides and fungicides.

APPLICATION: Apply Twister via conventional boom spraying equipment that is well maintained and calibrated and set up to achieve complete coverage of all weeds. Use an appropriate water rate for the weeds present but use a minimum of 150 litres/ha. Avoid overlapping as this can cause crop injury. Susceptible weeds germinating after application will be controlled by residual activity. If prolonged dry weather follows application made onto dry soil, the speed of action will be slow and the overall level of weed control reduced, especially in the spring. Overall weed control may be reduced if the seedbed is coarse or if there is excess organic matter. Do not use on soils with an organic matter content over 10%. Do not apply to waterlogged soils, or those prone to water-logging after heavy rain, as weed control may be reduced.

To avoid run-off, DO NOT use Twister where soils are cracked or excessively dry.

Twister may be used on all varieties of wheat at any growth stage up to jointing although it may cause slight crop yellowing under cool wet conditions or on light soils particularly in barley. This is temporary and will not affect subsequent crop growth or yield.

Twister should not be applied; to cereals under sown with grass or clover; to oats, triticale, or durum wheat, rye or other cereals not listed; under drought conditions; or if severe frosts are expected.

SOIL RESIDUES: After harvest thoroughly cultivate soil before sowing subsequent crops. In the event of a winter crop failure through drought or disease, replant in the spring only with wheat after thorough cultivation.

RAINFALL: Rainfall within 6 hours following treatment may reduce effectiveness, especially of leaf activity.

SPRAYER CLEAN-UP: Always completely wash all traces of Twister from spray equipment before spraying any other crop type.

It is an offence for users of this product to cause residues exceeding the relevant MRL in New Zealand Food standards (Maximum residue Limits of Agricultural compounds).

WITHHOLDING PERIOD: Do not apply after jointing of the crop.

RESISTANCE MANAGEMENT: **GROUP C2 HERBICIDE** Twister contains a herbicide from the urea chemical group with the inhibition of photosynthesis at photosystem II mode of action. Certain individual biotypes may become resistant to this and other group C2 herbicides. To minimise the risk of these weeds dominating the population use strictly in accordance with the label directions and use herbicides from alternative mode of action groups at other times.

NOTICE TO BUYER: The manufacturer and vendors of Twister warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

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