HARMFUL, ECOTOXIC
KEEP OUT OF REACH OF CHILDREN

BRUNO®

HERBICIDE

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

For selective control of various weeds in maize, onions, peas, potatoes, lentils, lucerne, and sweetcorn
**PLEASE READ ENTIRE LABEL BEFORE MIXING OR APPLYING. SHAKE OR STIR WELL BEFORE USE.**

**HAZARD CLASSIFICATION:** 6.1D, 6.8B, 6.9A, 9.1B, 9.3B

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

**RECORD KEEPING:** Records of use must be kept. See SDS for details.

**DANGER:** May cause organ damage from repeated oral exposure at high doses.

**WARNING:** May be harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin and eyes. May cause reproductive damage from repeated oral damage.

**FIRST AID:** If swallowed DO NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 765) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with flowing water. DO NOT rub the skin. If splashed in eyes, wash 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 concentrates from skin immediately. 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 water supply with product or empty container. Toxic to terrestrial vertebrates.

**STORAGE:** Store in original container, tightly-closed, away from food, foodstuffs, and recreational areas.

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

**SAFETY DATA SHEET:** Additional information is listed in the SDS available from Lonza NZ Limited or www.lonza.co.nz

Approved pursuant to the HSNO Act 1996. No: HSR00996. See www.epa.govt.nz for approvals conditions.


### DIRECTIONS FOR USE

**CROP** | **WEEDS CONTROLLED** | **RATES** | **CRITICAL COMMENTS**
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**PEAS** | Weeds from seedling to 4 true leaf stage: | 2 - 3 litres in 300 litres of water/ha | Apply at weed emergence but not to crops less than 5cm high or dishes suffering from disease. If weeds have progressed beyond the 4 leaf stage use 2.5-3 litres plus 1.6-1.4 litres MCPB. The mixture should be used to control more advanced seedling weedy and to improve effectiveness on emerged. Best results when applied to moist soils.

**CAUTION:** DO NOT apply if soil conditions are dry. DO NOT apply to peas grown on very light predominantly sand or peat soils. DO NOT apply to poorly prepared seedbeds containing large clods as these will protect some geringing weeds from herbicide contact. DO NOT apply within 7 days before or afterilling the emerged pea crop. DO NOT apply during drizzle or rain or to areas that are wet when dew or crop scorch can result. DO NOT overlap spray patterns eg. turns and corners.

**NOTICE TO BUYER:** Contains a triazine herbicide with the inhibition of photosynthesis at photosystem II mode of action. Naturally occurring biotypes resistant to triazine herbicides are known to exist and others could develop. These resistant biotypes may dominate when BRUNO or other related group C1 herbicides are used exclusively. To minimise this risk use strictly in accordance with label instructions and any resistance management strategies that exist for these weeds. For further information see www.resistance-ncps.org

**WITHHOLDING PERIOD:** Do not apply later than four weeks before harvest of onions.

**RESISTANCE MANAGEMENT:** **GROUP C HERBICIDE**

**BRUNO** contains a triazine herbicide and inhibits the photosynthesis at photosystem II mode of action. Naturally occurring biotypes resistant to triazine herbicides are known to exist and others could develop. These resistant biotypes may dominate when BRUNO or other related group C1 herbicides are used exclusively. To minimise this risk use strictly in accordance with label instructions and any resistance management strategies that exist for these weeds. For further information see www.resistance-ncps.org

**NOTICE TO BUYER:** The manufacturer and vendors of BRUNO warrant the formulation to contain the specified active ingredients within accepted tolerances when packaged but make no warranty of any kind on the use of this material and accept no responsibility for results, whether the material has been used in accordance with directions or not.

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| **MAIZE** | Up to the 2 leaf true stage: annual poa, barnyard grass, black nightshade, bristle grass, crowdfoot grass, field mustard, mayweed, mallow, pigweed, sheep sorrel, redshank, siserin grass, yellow weed, | 2 - 3 litres plus 5 - 7 litres alocitrin at the recommended rate in 200 - 300L of water/ha | Apply immediately after planting. Apply to a moist, firm clod and trash free surface, followed by 10 - 20mm of rain or irrigaion within 7 days. If rain is not expected within 3 days then application should be accompanied by light chain harrowing to move the chemicals into the soil. Note: The addition of alocitrin extends the spectrum of weeds to include most annual grasses. In dry clay soils, alocitrin should be incorporated prior to planting, then use 2 - 3 litres of BRUNO immediately after planting. WARNING: Some crop damage such as burning, twisting, and distortion of young leaves is likely to occur in the first days following application.

**APPLICATION:** Allow three to four days to elapse after spraying BRUNO before applying other products as the adjuvants in them may re-activate the BRUNO and cause damage to the crop. Do not apply more than 2 litres of BRUNO per ha per crop per year.

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| **SOYBEAN** | All species, broad-leaved weeds, broad-leaved plantain, field mustard, mayweed, mallow, pigweed, sheep sorrel, redshank, siserin grass, yellow weed, and with grass. | 350 ml/ha plus 450 ml/ha torylene (240 g/litre) | Apply immediately after planting. Apply to moist, firm clod and trash free surface, followed by 10 - 20mm of rain or irrigaion within 7 days. If rain is not expected within 3 days then application should be accompanied by light chain harrowing to move the chemicals into the soil. Note: The addition of alocitrin extends the spectrum of weeds to include most annual grasses. In dry clay soils, alocitrin should be incorporated prior to planting, then use 2 - 3 litres of BRUNO immediately after planting. WARNING: Some crop damage such as burning, twisting, and distortion of young leaves is likely to occur in the first days following application.

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| **LUCERNE** | Seeding storksbill, musky storksbill, chickweed, bird's foot trefoil, broad-leaved dock, narrow-leaved plantain, dandelion, California thistle, Scotch thistle, | 2 - 3 litres plus parquat at the recommended rate in 200 - 300L of water/ha | Use the higher rates when weeds are past the seedling stage, on soils rich in clay or organic matter or where application is later than the end of June. Apply to closely grazed stands in winter when lucerne is dormant but after weeds have been allowed to freshen. Avoid application when frost is on the foliage or when ground conditions are excessively wet. CAUTION: DO NOT apply to young lucerne stands until after plants have developed a crown.

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**MODE OF ACTION:** Primarily absorbed by roots, but some scorching of foliage in susceptible weeds. Following uptake it inhibits photosynthesis resulting in yellowing and then death. **RAINFALL:** Rainfall soon after treatment will improve results as BRUNO needs to be moved into the root zone of weeds to be effective. See caution statement under pees. **COMPATIBILITY:** May be mixed with other related group C or D herbicides with similar adjuvants including alachlor, metabolol and other chemical non-ionic solubilisers. **APPLICATION:** Apply with boom spraying equipment fitted with fan nozzles. Use 200 - 300 litres of water/ha. Maintain agitation during spraying and avoid overlapping. Sprayer clean-up: To avoid injury to subsequently sprayed crops, flush sprayer with several rinses of clean water. **SBEWARY:** Apply this product carefully. Spray drift may cause serious damage to desirable plants or where their roots may extend, or in locations where the chemical may be washed or moved to their roots.

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**EMERGENCY PHONE:** 0800 CHEMCALL 0800 243 6225 **SHR00996: 0800 CHEMCALL 0800 243 6225"