

Atom

A suspension concentrate formulation containing 500g/l (40.16% w/w) mecoprop-p formulated as the potassium salt and 33.3 g/l (2.67% w/w) diflufenican.

A post-emergence herbicide for the control of a range of broad-leaved weeds in winter wheat and winter barley.

PRODUCT BENEFITS

- Controls a range of difficult broad-leaved weeds.
- A useful tank-mixer.
- Does not belong to the ALS inhibitor group of herbicides.
- Can be used in the autumn. Broad-leaved weed resistance management.

LERAP category: B

Pack size: 5 litres

Storage: PROTECT FROM FROST



IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

Crop	Maximum individual dose	Maximum number of treatments	Latest time of application
Winter wheat and winter barley	2.0 l/ha	One per crop	Before the fourth tiller detectable stage (GS 24)

Other specific restriction:

- This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with the CRD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

MAPP 15038

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS

DO NOT apply if heavy rain is expected within four hours or if crop is stressed due to waterlogging, drought, nutrient deficiency, pest infestation etc.

DO NOT apply during prolonged periods of frosty weather and frost following application may cause crop damage.

DO NOT overlap of spray swaths.

Crops may suffer some transient damage such as bleaching. This is normally outgrown without affecting yield.

DO NOT roll autumn crops until spring. DO NOT treat undersown crops or those due to be undersown.

DO NOT direct drill autumn-sown broad-leaved crops following the use of ATOM in the previous crop.

Apply only to healthy crops which are growing well.

Avoid drift onto broad-leaved plants outside the target area.

WASH EQUIPMENT thoroughly immediately after use. Fill the tank with clean water and leave overnight. Spray out before storage or using other products. Traces of the product may cause damage to susceptible crops sprayed later.

WEEDS CONTROLLED

ATOM is a selective herbicide for use in winter wheat and winter barley. It is most active on small, actively growing weeds and combines hormonal and contact modes of action.

Speed of activity is dependent on temperature and growing conditions; activity can be slow under cool conditions. Moist soils at application are an advantage.

Weed susceptibilities

Species listed as susceptible (S) will be controlled from the cotyledon stage up to the four true leaf stage.

Chickweed, common	S	Poppy, common	S
Mayweed, scentless	S	Shepherd's purse	S
Meadow grass, annual	R	Speedwell, common field	S
Pansy, field	S	Speedwell, ivy-leaved	S
Pennycress, field	S*		

*Up to two true leaf stage.

CROP SPECIFIC INFORMATION

Winter wheat and winter barley

ATOM may be used on all varieties of winter wheat and winter barley.

Dose

2.0 l/ha.

Timing

From the first true leaf stage (GS 11) to before the fourth tiller detectable stage (GS 24).

Maximum number of applications

One per crop.

Water volumes

200 litres of water per hectare.

Use the higher volume where the crop is dense.

Apply as a MEDIUM spray (BCPC category).

EFFECTS ON TRANSFORMATION HAVE NOT BEEN FULLY TESTED. CONSULT GRAIN MERCHANT OR PROCESSOR BEFORE USE.

Following crops

Plough to 150 mm before drilling or planting following crops. If a crop fails for any reason, only re-drill winter wheat and winter barley immediately or a period of 12 weeks must lapse after ploughing before spring varieties of spring wheat, spring barley, spring oilseed rape, peas, spring field beans, sugar beet, potatoes, carrots, edible brassicas or onions may be drilled.

Where ATOM or other products containing diflufenican are applied to successive cereal crops, levels of diflufenican will build up in the soil. Even where ploughing is carried out, there is still a risk of damage to following crops of onions, leeks and related species, or clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out the land.

MIXING AND SPRAYING

Shake the container well before use. Half fill the spray tank with clean water, begin agitation and add the required amount of ATOM to the tank and complete filling. Continue agitation until spraying is completed. Do not leave the sprayer filled with the spray solution standing long periods. Wash out the sprayer thoroughly after use with water.

Apply via a horizontal boom sprayer using a MEDIUM spray (BCPC category). A spray pressure of at least two bars is advised.

TANK CLEANING

Traces of the product may cause damage to susceptible crops sprayed later.

Wash all equipment thoroughly with water containing a wetting agent. Spray out on a safe area, fill with clean water and leave overnight, spray out again before storing or using for another product.

COMPATIBILITY

Please consult your agronomist or Nufarm.

ATOM

A suspension concentrate containing 500 g/l mecoprop-p and 33.3 g/l diflufenican.



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

**HARMFUL IF SWALLOWED.
RISK OF SERIOUS DAMAGE
TO EYES.**

**MAY CAUSE SENSITISATION
BY SKIN CONTACT.**

**VERY TOXIC TO AQUATIC
ORGANISMS, MAY CAUSE LONG
TERM ADVERSE EFFECTS IN THE
AQUATIC ENVIRONMENT.**

IN CASE OF CONTACT WITH EYES, RINSE
IMMEDIATELY WITH PLENTY OF WATER
AND SEEK MEDICAL ADVICE.

THIS MATERIAL AND ITS CONTAINER
MUST BE DISPOSED OF IN A SAFE WAY.

WEAR SUITABLE GLOVES.

WEAR EYE/FACE PROTECTION.

USE APPROPRIATE CONTAINMENT TO
AVOID ENVIRONMENTAL
CONTAMINATION.

To avoid risks to man and the environment, comply with the instructions for use.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle-mounted equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

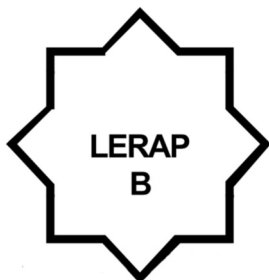
WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin and eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DO NOT BREATHE SPRAY

Environmental protection



DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within five metres of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within one metre of the top of a ditch which is dry at the time of application. Aim spray away from water.

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LERAP must be carried out in accordance with the CRD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

WASH OUT CONTAINER THOROUGHLY, empty washings into a spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.