



Risk and Safety Information

Avro™ SX®
Herbicide

Containing
28.6 g/kg metsulfuron methyl and
428.5 g/kg thifensulfuron methyl

Very toxic to aquatic life with
long lasting effects.

Avoid release to the environment.
Collect spillage.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

To avoid risks to human health and the environment,
comply with the instructions for use



WARNING

FMC

AVRO™ SX®

Cereal Herbicide

GROUP 2 HERBICIDE

MAPP 21636



A non-segregating blend of water-soluble granules containing 28.6 g/kg metsulfuron methyl and 428.5 g/kg thifensulfuron methyl for spring control of certain broad-leaved weeds in wheat and barley.

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

FOR PROFESSIONAL USE ONLY

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Emergency No.s - Medical Incidents Involving Crop Protection Products: England & Wales: 111, Scotland: 08454 24 24 24, Northern Ireland: Local GP or Pharmacist, Republic of Ireland: 01 837 9964. **Healthcare professionals seeking poisons information :** www.toxbase.org.

Emergency No.s - Transportation, Warehousing & After Sale Incidents: CHEMTREC help centre Dialling from the UK and NI: 0870 820 0418, Dialling from Ireland: 01 901 4670

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET



The Voluntary Initiative

This label is compliant with the CroPLife UK Voluntary Initiative Guidance



To access the Safety Data Sheet for this product scan the code, visit www.fmc-agro.co.uk or alternatively contact your supplier

11006043_22066637_GREAT BRITAIN



Contents: **400 g**

Batch N°:

	FILL IN		DIMENSION (WxH)
Country	GREAT BRITAIN	Single label	
Product SKU	11006043	Base for Booklet	
Product SKU Description	AVRO SX_400G_GB	Booklet	BKL 290x110 mm (240x110 mm)
Label SKU	22066637	Number of pages (Booklet)	8 pages
Label SKU Description	LBL_ML-F_400G_AVRO SX_GB_1	Carton label	
Label SKU (earlier version)		Preprinted Material	No

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

- Avro™ SX® must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Do not use Avro™ SX® on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important - see below.
- Contract agents should be consulted before using on crops grown for seed.
- Avro™ SX® should not be applied within 7 days of rolling the crop.
- Do not apply Avro™ SX® more than once to any cereal crop.
- Effectiveness using three star drift reduction technology may be reduced.
- Refer to 'Compatibility' for details on use of Avro™ SX® with other 'ALS inhibiting' herbicides.

Weed Control

Avro™ SX® contains two highly active herbicidal ingredients with activity against a wide range of broad-leaved weeds. Metsulfuron-methyl and thifensulfuron-methyl are sulfonylurea herbicides. Avro™ SX® is most effective when applied to small, actively growing weeds. As larger weeds usually become less susceptible, it is important to note the size of each weed species at the time of application. Susceptible plants cease growth almost immediately after post-emergence application and symptoms can be seen about two weeks after application. Good spray cover of the weeds must be obtained. Weed control may be reduced when soil conditions are very dry.

Weed Resistance

Avro™ SX® contains metsulfuron-methyl and thifensulfuron-methyl which belong to HRAC Group 2 (previously HRAC Group B).

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. Development of resistance with a weed species can be avoided or delayed by using cultural methods of control; using herbicides with non-ALS modes of action within the cropping season and/or throughout the cropping rotation and sequencing or tank-mixing with suitable products having a different mode of action where two or more components are active against the target weeds. A strategy for preventing and managing resistance should be adopted. Avoid using herbicides with a single mode of action, such as ALS herbicides, in the same fields over a number of years. Do not apply to weeds where target site resistance to ALS inhibiting herbicides is confirmed. Always follow the recommendations of the Weed Resistance Action Group (WRAG) with respect to the integration of chemical and cultural control measures. To reduce the risk of developing resistance applications should be made to young, actively growing weeds. Always monitor effectiveness of weed control and investigate any patches of poor control. If unexplained, contact your agronomist, who may consider a resistance test appropriate. The Weed Resistance Action Groups have produced guidelines and copies are available from the HGCA, CropLife UK, your distributor, crop adviser or product manufacturer.

Susceptible Weeds

The susceptibility ratings of weeds in the following table refer to good spray cover and good growing conditions.

Weed Species	Plants up to 2 expanded true leaves	Plants up to 6 expanded true leaves	Plants upto 15 cm across/high
Black-bindweed	S	S	MS
Charlock	S	S	S
Chickweed, Common	S	S	S
Cleavers*	MS	MS	MS
Dead-nettle, Red	S	S	S
Fat-hen	S	S	MS
Field-speedwell, Common	S	S	MS
Forget-me-not	S	S	S
Hemp-nettle, Common	S	S	S
Knotgrass	S	S	MS
Mayweeds	S	S	S
Orache, Common	S	S	-
Pansy, Field	S	S	MS
Parsley-piert	S	S	S
Poppy, Common	S	S	MS
Redshank	S	S	S
Shepherd's-purse	S	S	S
Thistle, Creeping	S	S	S

S = Fully susceptible MS = Moderately susceptible

* Avro™ SX® generally controls cleavers at all stages of growth but re-growth can occur. Should overspraying be necessary, do not use another sulfonylurea product for this purpose.

Soil

Avro™ SX® can be used on all soil types. Weed control may be reduced when conditions are very dry.

Volume and application

BEFORE USING Avro™ SX®, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES. Application should be made in 200 -400 litres of water per hectare using suitable ground equipment to give good spray cover of the weeds. The spray quality should be MEDIUM (as defined by BCPC), applied at a pressure of 2 - 3 bar. When crops are thick or weed growth dense, use the higher volume.

When applying Avro™ SX® care should be taken not to overlap spray swaths.

Mixing

Quarter fill the spray tank with clean water, start the agitation and add the required quantity of Avro™ SX® directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

Compatibility

To widen the spectrum of activity and improve the control of some weeds, Avro™ SX® may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add Avro™ SX® to the spray tank first when using in tank-mix.

The following 'joint application' with other sulfonylurea and 'ALS inhibiting' herbicides may be applied to a crop. Requirements and restrictions on other product labels must be adhered to. 'Joint application' is the use of Avro™ SX® in tank mixture or sequence with one of the products listed below.

Absolute	Galaxy	Pacifica
Atlantis WG	GF-184	Pursuit*
Barton WG	GF-2070 [§]	Slalom
Boxer	Hatra	Spitfire
Broadway Star	Hiker	Spitfire Solo
Broadway Sunrise	Horus	Staka SX
Bullion	Hunter	Starane Gold
Dakota	Lexus Class	Starane Vantage
Ductis SX	Lexus SX	Starane XL
Eagle*	Oklar SX	Unite [§]
Excalibur	Oriel 50 SX	
Exceed SX	Othello	

* only cereals as following crop

§ Use only in sequence with Avro™ SX®

Additional recommendations may be approved since label printing. Please consult your FMC distributor for latest details on compatibilities.

Crops

Avro™ SX® can be used on all varieties of wheat (except Durum wheat) and barley between the growth stages given below.

Dose

Apply Avro™ SX® at 140 grams/hectare.

Timing

Winter wheat and barley: Apply Avro™ SX® in the spring from 1 February, from the onset of tillering up to before flag leaf sheath extending (early-boot stage).

Spring wheat and barley: Apply Avro™ SX® in the spring from the three leaf stage up to before flag leaf sheath extending (early-boot stage).

Following crops

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year as harvest of a cereal crop treated with Avro™ SX®. In case of crop failure for any reason, sow only winter wheat within three months of application of Avro™ SX®. Before sowing, soil should be ploughed and cultivated to a depth of at least 15-cm.

WARNINGS

EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT ONTO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA OR ONTO SURFACE WATERS OR DITCHES OR LAND INTENDED FOR CROPPING. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.



SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING AVRO™ SX® THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after removing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.
2. Repeat the rinse, flush and drain.
3. For disposal of washings, follow the 'Code of Practice for Using Plant Protection Products' (DEFRA Publications 2006). Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

Note:

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

SAFETY PRECAUTIONS

Operator protection

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

Environmental Protection

- (1) Horizontal boom sprayers must be fitted with three star drift reduction technology for all uses.
- (2) Crops/situations with >5m buffer zone:
Since there is a risk to aquatic life from use, direct spray from horizontal boom sprayers must not be allowed to fall within the distance specified for the crop of the top of the bank of any static or flowing waterbody or within 1m of the top of a ditch which is dry at the time of application. Spray must be aimed away from water.
- (3) Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' available from HSE Chemicals Regulation Division's website and any amendments made to it.
- (4) The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).
- (5) To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies as specified for the crop.
- (6) Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.
- (7) NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME. The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form.

Other specific restrictions

- (1) This product must not be applied via hand-held equipment.
- (2) Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the horizontal boom LERAP scheme.
- (3) This product qualifies for inclusion within the Local Environment 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 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.
- (4) Low drift spraying equipment for the horizontal boom must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE website. These operating conditions must be maintained until the operator is 30m from the top of the bank of any surface water bodies.
- (5) This product must only be applied from 1 February in the year of harvest until the specified latest time of application.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

NOTICE TO BUYER

FMC as the manufacturer warrants that the composition of the product in sealed original FMC packaging complies with the information given on this label. FMC is not liable for any direct or indirect consequences resulting from improper storage, handling or use of the product contrary to or otherwise not in compliance with this label, law and regulations. Various factors, especially local conditions, such as soil condition, plant varieties and weather conditions, may either cause the product not to have the full desired effect or result in damage to the crops treated. FMC does not assume any liability for such results.

All manufacturers trademarks are duly acknowledged.

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IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HERBICIDE				
Crop	Maximum individual dose (g product/ha)	Maximum number of treatments (per crop)	Latest time of application	Aquatic buffer zone distance
Barley (spring), barley (winter), wheat (spring), wheat (winter)	140	1	Before flag leaf sheath extending (early-boot stage)	6 metres with 75 % DRT see Environmental Protection Phrases 1 and 2
<p>Other specific restrictions:</p> <p>(1) This product must not be applied via hand-held equipment.</p> <p>(2) Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the horizontal boom LERAP scheme.</p> <p>(3) This product qualifies for inclusion within the Local Environment 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 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.</p> <p>(4) Low drift spraying equipment for the horizontal boom must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE website. These operating conditions must be maintained until the operator is 30m from the top of the bank of any surface water bodies.</p> <p>(5) This product must only be applied from 1 February in the year of harvest until the specified latest time of application.</p> <p>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.</p>				

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