

HERBICIDE

# SAMSON®

Extra 6%

**Herbicide for the suppression of perennial grass weeds and the control of annual grass and broad-leaved weeds in forage and grain maize.**

Oil dispersion formulation containing 60 g/L nicosulfuron

MAPP No.: 19473

**FOR USE ONLY AS A PROFESSIONAL HERBICIDE  
PROTECT FROM FROST**

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

GROUP	B	HERBICIDE
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**24-hour emergency number: 0032 14 58 45 45**  
**Technical enquiries: 01480 403333**



Marketing company: **Belchim Crop Protection Ltd.**  
1b Fenice Court, Phoenix Park | Eaton Socon, St Neots, Cambridgeshire PE19 8EW  
Tel 01480 403333 | Fax 01480 403444 | info-uk@belchim.com | www.belchim.co.uk

Net contents: **5L<sup>e</sup>**



This label is compliant with the CPA Voluntary Initiative guidance

Production date / Batch number: see packaging

Approval holder:  
**ISK BIOSCIENCES Europe N.V.**  
Pegasus Park, De Kleetlaan 12B-Box 9  
B-1831 Diegem, Belgium  
Tel: 0032 (0)2 627 86 11

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## SAFETY PRECAUTIONS

### a) 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) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

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

\* WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

\* AVOID ALL CONTACT WITH SKIN.

\* WHEN USING, DO NOT EAT, DRINK OR SMOKE.

\* WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

### b) Environmental protection

\* To protect aquatic organisms respect an unsprayed buffer zone distance to surface water bodies in line with LERAP requirements.

\* DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application.

\* DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing waterbody. Aim spray away from water.

\* 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 CRD's published guidance or the statutory buffer zone must be observed. The results of the LERAP must be recorded and kept available for inspection for three years.

\* 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.

\* EXTREME CARE MUST BE TAKEN to avoid spray drift onto non-crop plants outside of the target area.

### c) Storage and disposal

\* STORE THE CONTAINER AT ROOM OR COOL TEMPERATURES.

\* KEEP OUT OF REACH OF CHILDREN.

\* KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

\* KEEP IN ORIGINAL CONTAINER tightly closed in a safe place

\* RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

\* DO NOT RE-USE CONTAINER FOR ANY PURPOSE

\* THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way

This booklet is part of the approved Product Label.

**SAMSON EXTRA 6% : Oil dispersion formulation**  
containing 60 g/L nicosulfuron  
**UFI: NKJE-KD57-N095-THX2**

## WARNING



**H315 Causes skin irritation.**  
**H317 May cause an allergic skin reaction.**  
**H410 Very toxic to aquatic life with long lasting effects.**

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P321 Specific treatment (see supplemental first aid instruction on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 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.

**EUH401 To avoid risks to human health and the environment comply with the instructions for use.**

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

**IMPORTANT INFORMATION: FOR USE ONLY AS A PROFESSIONAL HERBICIDE**

<b>Crop/Situations:</b>	<b>Max. individual dose:</b>	<b>Max. number of treatments:</b>	<b>Latest time of application:</b>
Forage and grain maize	0.75 L/ha	1 per crop	Up to and including 8 true leaf stage

**Other specific restrictions:**

- To avoid the build up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds more than once to any crop.

**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.**

**DIRECTIONS FOR USE**

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

SAMSON EXTRA 6% provides post-emergence control of a wide spectrum of annual grasses and broad-leaved weeds in maize crops. Weeds stop growing immediately after application; within 4 to 5 days, young developing leaves become discoloured and necrosis then spreads to the entire plant.

**RESTRICTIONS**

- Do not mix with foliar or liquid fertilisers.
- Under certain conditions, some transient yellowing and/or crop stunting and/or loss of vigour can be seen from 1 to 2 weeks after treatment (2 - 8 leaves of maize). This is quickly outgrown and no yield effect has been shown.
- Applications should not be made to maize crops that are under stress, as this may lead to incidences of more persistent crop damage. Apply product at the recommended dose rate to a healthy crop.
- Strains of some annual weeds (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop advisor or product manufacturer.
- Avoid the use of SAMSON EXTRA 6%, or any other ALS inhibitor herbicide, as a sole means of grass and broad-leaved weed control in successive crops.
- This product should not be used to control 'light infestations' of weeds.
- Avoid overlapping spray swaths, as considerable crop damage may occur which may not grow out and could lead to yield reductions.
- SAMSON EXTRA 6% can be used on all varieties of maize. In the case of particularly sensitive varieties, e.g. Abraxas, Fjord, Rival and Nancis, some crop damage may be caused from which recovery may not be complete.
- Due to its high level of activity, care must be taken to avoid damage by spray drift onto plants outside the target area.

- Do not spray SAMSON EXTRA 6% if any rainfall is expected in the next 6 hours.

**RESISTANCE MANAGEMENT**

This product contains nicosulfuron which is an ALS inhibitor, also classified by the HRAC as 'Group B'.

Use only as part of a resistance strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass-weed control. There is potential for resistance to develop to SAMSON EXTRA 6% if the product is used alone in monoculture over a number of years. SAMSON EXTRA 6% should be used in mixture or in sequence with herbicides with other modes of action, particularly in continuous maize, as part of a weed resistance management plan. Crop rotation, using herbicides with different modes of action, can be practised as an alternative to reduce risk of development of resistance.

**CROP SPECIFIC INFORMATION**

SAMSON EXTRA 6% can be applied to all varieties of forage and grain maize.

**Timing of application:** SAMSON EXTRA 6% should be applied at the 2 to 8 leaf stage of the crop. Do not spray SAMSON EXTRA 6% if any rainfall is expected in the next 6 hours.

**Rate of application:** 0.5 to 0.75 L/ha

**Water volume:** Application of SAMSON EXTRA 6% should be made by using conventional ground spraying equipment at water volumes of 200 – 400 L/ha.

**Weeds controlled**

Weeds to be controlled should be at the following growth stages:

Broad-leaved weeds: 2-6 true leaf stage

Annual grass weed species: 2 leaf stage to early tillering.

Common name	Latin name	Dose rate L/ha	Susceptibility
<b>Grass weeds</b>			
Cockspur grass	<i>Echinochloa crus-galli</i>	0.75	S
Italian rygrass*	<i>Lolium multiflorum</i>	0.75	S
Annual meadow-grass#	<i>Poa annua</i>	0.50	S
Foxtails	<i>Setaria sp.</i>	0.75	S
<b>Broadleaf weeds</b>			
Common amaranth	<i>Amaranthus retroflexus</i>	0.67	S
Shepherd's purse	<i>Capsella bursa-pastoris</i>	0.67	S
Fat hen	<i>Chenopodium album</i>	0.75	MS
Many seeded goosefoot	<i>Chenopodium polyspermum</i>	0.67	S
Mayweeds	<i>Matricaria spp.</i>	0.75	S
Annual mercury	<i>Mercurialis annua</i>	0.75	S
Knotgrass	<i>Polygonum aviculare</i>	0.75	R
Black bindweed	<i>Fallopia convolvulus</i>	0.75	MS
Pale persicaria	<i>Polygonum lapathifolium</i>	0.75	MS
Redshank	<i>Polygonum persicaria</i>	0.75	MS
Black nightshade	<i>Solanum nigrum</i>	0.75	MS
Common chickweed	<i>Stellaria media</i>	0.67	S

Key: \*Susceptible from seed only, not from root-stock. #Only susceptible at the 2-4 leaf stage of the weed. S=susceptible (control >85%); MS=moderately susceptible (70-85% control); MR=moderately resistant (50-70% control); R=resistant (<50% control).

Limited data indicate 0.75 L/ha SAMSON EXTRA 6% can control field pansy and groundsel.

#### Suppression of common couch (*Elymus repens*)

Use: When used to control other weeds, applying the 0.75 L/ha dose of SAMSON EXTRA 6% at the 4-6 leaf stage of the couch will provide a useful level of control of Common couch. The efficacy is generally above 75%. Useful level of control of top growth will be seen in the year of application, but reduction of growth in the following year has not been investigated.

#### Control of Annual Grasses

Use: Apply between 0.5 L/ha and 0.75 L/ha in 200 L/ha of water at 2-8 leaf stage of the crop, 2 leaves to early tillering of the weed.

#### Control of Broad-leaved Weeds

Use: Apply between 0.67 L/ha and 0.75 L/ha in 200 L/ha of water at 2-8 leaf stage of the crop, 2 leaves to 6 leaves of the weeds.

**WARNING:** In order to give maximum control of Fat hen the weeds must be growing well and not under any form of stress.

#### **CROP SAFETY**

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#### **SOIL TYPE**

SAMSON EXTRA 6% can be used on all soils (light, medium and heavy soils) and is unaffected by high organic matter.

## MIXING AND SPRAYING

### Preparation of the spray solution

Shake thoroughly the SAMSON EXTRA 6% container. Half fill the spray tank with clean water and begin agitation. Add the required quantity of SAMSON EXTRA 6% to the tank and complete filling. Continue agitation until spraying is completed.

### Tank cleaning procedure

The following cleaning procedure is recommended:

1. Drain tank completely then flush tank, boom and hoses with clean water. Drain again.
2. Half fill the tank with clean water and add a detergent (e.g. Bonus™ - 100 mL/200L water) or a sodium hypochlorite based solution. Flush through boom and hoses and then allow standing for 10 minutes with agitation. Drain completely.
3. To remove traces of detergent, rinse the tank with clean water and flush through booms and hoses.
4. Repeat step 2.
5. Nozzles and filters must be removed and cleaned separately with the detergent solution at the same concentration as above.
6. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

## FOLLOWING CROPS

In normal crop rotation, after ploughing, winter wheat, winter barley, winter rye, and triticale can be sown. All other crops can be sown in the following spring. In case of plant-back situation (crop failure), maize and soybeans can be sown after ploughing.

## COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Products Regulations 1995, and provides additional advice on product use at the discretions of the applicant.

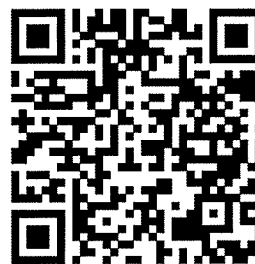
## WARRANTY/ DAMAGES

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimize any loss in activity the recommended rate should in all events be adhered to. Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as

to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of applicable law.

ISK Biosciences Europe NV, as the Seller, shall be under no liability (except for liability for death or personal injury resulting from the negligence of the Seller) whether in contract or in tort for or in respect of any loss or damage resulting from an arising out of the mixing or sequential use, of the goods with any other goods (whether the Seller or any third-party) otherwise than in accordance with the Seller's Recommendations for Use, or resulting from or arising out of the use of the goods in or before abnormal weather conditions or in unusual soil conditions notwithstanding that such conditions may be known or may have been known to the Seller or on plant varieties not known to the Seller to be abnormally susceptible to damage by the goods.

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



WEBLINK to specific data sheet on manufacturer's website:  
[http://belchim.co.uk/pdf/MSDS/Samson\\_MSDS.pdf](http://belchim.co.uk/pdf/MSDS/Samson_MSDS.pdf)

Alternatively, contact your supplier.



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