Sipcam Solo D

(MAPP 12617)

A herbicide for post-emergence control of broad-leaved weeds in the autumn and spring on winter wheat and winter barley.

SIPCAM

SIPCAM U.K.

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A suspension concentrate containing 500 g/l (41.6 % w/w) diflufenican.

A herbicide for post-emergence control of broad-leaved weeds in the autumn and spring on winter wheat and winter barley.

DANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO AQUATIC ORGANISMS

Safety Data Sheet available for the professional user on request. To avoid risks to man and the environment, comply with the instructions for use.

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Winter wheat, winter barley
Maximum Individual Dose:	350 ml/ha
Maximum Number of Treatments:	One per crop
Latest Time of Application:	Before 7 tillers detectable (ZGS 27)

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

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

READ THE LABEL BEFORE YOU BUY – USE PESTICIDES SAFELY

Solo - 07/08

Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB. Tel: 01763 212100. Fax: 01763 212101.

DIRECTIONS FOR USE

GENERAL INFORMATION

SIPCAM SOLO D is a herbicide with contact and residual activity for the control a wide range of broad-leaved weeds, including Cleavers, in both autumn and spring in winter wheat and winter barley.

CAUTIONS

Avoid treating crops suffering from stress, pest and disease attack or micronutrient deficiency.

Do not apply to frosted crops. Sharp or severe frosts following application may cause crop scorch from which the crop will normally recover.

Do not harrow treated crops at any time after application.

Do not use on crops being grown for seed.

Avoid drift onto neighbouring crops.

Avoid overlapping spray swaths.

Avoid applying to waterlogged soils.

SOIL TYPES AND WEATHER CONDITIONS

SIPCAM SOLO D can be applied to all soils except those containing more than 10% organic matter. The speed of activity of SIPCAM SOLO D is dependent upon temperature and growing conditions and can be slow under cool conditions. For best results, soil should be moist at and after application. Seed beds should be fine and firm and not contain clods greater than fist size.

CROPS TREATED AND TIME OF APPLICATION

SIPCAM SOLO D can be applied to winter wheat and winter barley from the two-leaf stage (ZGS12) to 7 tillers detectable (ZGS27). Best results will be obtained from applications to small, actively growing weeds in the early spring.

RATES OF APPLICATION AND WEEDS CONTROLLED

1. Susceptible at 0.2 l/ha

Weed	Weed Growth Stage Controlled
Field poppy	Cotyledon to 6 expanded true leaves
Red dead-nettle	Cotyledon to 2 expanded true leaves
Field pansy	Cotyledon to 2 expanded true leaves
Common groundsel	Cotyledon to 2 expanded true leaves
Ivy-leaved speedwell	Cotyledon to 2 expanded true leaves
Common field speedwell	Cotyledon to 2 expanded true leaves
Common chickweed	Cotyledon to 8cm diameter
Shepherds purse	Cotyledon to 4 expanded true leaves
Parsley piert	Cotyledon to 4 expanded true leaves
Charlock	Cotyledon to 5 expanded true leaves

2. Susceptible at 350 mls/ha

Weed	Weed Growth Stage Controlled
Scentless mayweed	Cotyledon to 2 expanded true leaves
Cleavers	Cotyledon to 2 whorls

WATER VOLUME

Apply using a conventional hydraulic ground sprayer in 200 – 400 litres of water/ha. Use the higher water volume where the crop is dense to ensure adequate weed coverage.

A spray pressure of at least 2 bar (30 psi) is advised.

SPRAY QUALITY

Apply SIPCAM SOLO D as a 'medium' spray (as defined by BCPC).

Good coverage of soil and weed is essential.

MIXING AND APPLICATION

Shake the container thoroughly before opening and use. Half-fill the spray tank with clean water and begin agitation. Add the required quantity of SIPCAM SOLO D to the water.

On emptying the container, RINSE CONTAINER THOROUGHLY using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of container safely'.

Complete the filling and apply without delay. Maintain agitation while travelling and throughout the spraying operation.

Wash out the sprayer thoroughly after use using a recognised tank cleaner.

FOLLOWING CROPS

1. Crop failure: In the event of crop failure, soil treated with SIPCAM SOLO D in the autumn can be re-drilled with winter wheat after normal cultivations.

   Re-drilling may also take place with winter barley but only after ploughing.

   Field must be ploughed and an interval of 12 weels should elapse between treatment and subsequent planting of the following spring sown crops: spring wheat, spring barley, spring oilseed rape, peas, spring field beans, sugar beet, potatoes, carrots, edible brassicas or onion. Re-drilling (before the subsequent autumn) must only tale place with listed crops.'
2. Subsequent autumn cropping in a normal rotation: After harvest, soils previously treated with SIPCAM SOLO D should be ploughed, ensuring complete inversion of the furrow slice. Autumn-sown cereals can be drilled as normal. As a precaution, users who rent out their land to growers should not use diflufenican containing products in successive years before renting out the land.
3. Subsequent spring cropping in a normal rotation: Soil should be cultivated or ploughed before planting or sowing spring crops (as listed above).

RESISTANCE

DO NOT USE more than one carotenoid biosynthesis inhibitor-containing product in a season (e.g. picolinofen, available in mixture with pendimethalin). "See also WRAG Guidelines".

COMPATIBILITY

Consult your distributor for latest details.

Before using any tank-mixture, consult and comply with the recommendations for the partner product. Each product should be added separately to the bulk of the water in the spray tank and thoroughly mixed before adding the next.

Tank mixtures should be sprayed immediately and agitation maintained at all times.

SAFETY PRECAUTIONS

OPERATOR PROTECTION

WHEN USING DO NOT EAT, DRINK OR SMOKE.

ENVIRONMENTAL PROTECTION

* DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.
* DO NOT ALLOW DIRECT SPRAY from crop 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. Aim spray away from water.
* This product qualifies for inclusion within the local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer or broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with PSD's published guidance, or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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

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

This material and it's container must be disposed of in a safe way.

SHAKE THE CONTAINER WELL BEFORE OPENING AND USE.

PROTECT FROM FROST.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – Sipcam Solo D

MAPP – 12617

Use – Herbicide

Formulation type – Suspension concentrate

Supplier – Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB

Emergency phone no – Office 01763 212100

2. COMPOSITION/INFORMATION ON INGREDIENTS

Common name – Diflufenican

CAS/EC no – 83164-33-4

Hazard Symbol – N

R phrases – R51/53

Conc^{n} – 42%

3. HAZARDS IDENTIFICATION

Critical Hazard to environment – Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice – Remove from source of exposure.
Remove all contaminated clothing and wash affected area.

Inhalation – Remove the individual from exposure to this product and keep well ventilated with fresh air. Keep at rest. If necessary and if breathing stops, give artificial respiration. Seek medical attention.

Skin contact – Remove contaminated clothing immediately.
Wash affected area thoroughly with soap and water.
Rinse with more water. Seek medical attention.

Eye contact – Rinse immediately with plenty of water for at least 15 minutes and then seek medical attention.

Ingestion – If swallowed, seek medical attention immediately.

Treatment – No Specific antidote. Treat Symptomatically and Supportive.

Consult a Poisons Centre such as;
0171 635 9191 (National Poisons Information Service - London)
(AUTHORISED MEDICAL PRACTITIONERS ONLY)

5. FIRE FIGHTING MEASURES

Suitable extinguishing media – Fight fire with CO_2, dry chemical powder, foam or water spray (in preference to water jet).

Specific hazards – Combustion may generate toxic fumes containing HF, HC_3, HCN and $N0_3$.

Protective equipment – Wear self-contained breathing apparatus (SCBA).

Specific Methods – Cool containers with spray. Contain fire-fighting water, bunding if necessary with sand, earth, or other inert material.

6. ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment – Wear protective coveralls, neoprene gloves, rubber boots and faceshield or goggles, covering as much of the body as possible (see section 8).

Environmental Protection – DANGEROUS TO FISH OR AQUATIC LIFE. Do not contaminate surface water or ditches with chemical or used container.

Harmful to aquatic organisms may cause long term adverse effects in the aquatic environment.

Inform local water plc immediately if spillage enters drains and the National Rivers Authority (England and Wales) or River Purification Boards (Scotland), if it enters surface or ground waters.

Clean up Methods – Contain or absorb spillage with sand or earth. Sweep up carefully and shovel sweepings into marked bags or drums. Dispose of through a reputable local waste disposal contractor.

7. HANDLING AND STORAGE

Handling

Use Suitable Personal Protective Clothing.

Avoid fumes – work in a well ventilated area.

Storage

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

Protect from frost.

Keep away from heat sources and direct sunlight.

Other

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH SPLASHES from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH, WITH SKIN AND EYES.

DO NOT BREATHE SPRAY.

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

KEEP AWAT FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standard (OES) – No specific standard

Engineering measures – If possible use a cab fitted with a forced air filtration unit with a pesticide filter when spraying.

Personal Protective Equipment

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), PROTECTIVE GLOVES* AND FACE PROTECTION (FACESHIELD) when handling the concentrate. (*neoprene or nitrile at least 0.6mm thick).

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

9. PHYSICAL AND CHEMICAL PROPERTIES

State – Liquid

Density – 1.2

Colour – White

Odour – Light, characteristic

Boiling point – 100ºC

Explosive properties – Not explosive

Flammability – Non Flammable

Solubility – 0.05 ppm @ 20ºC (Diflufenican)

10. REACTIVITY AND STABILITY

Stability – Stable under normal ambient conditions. Non-flammable and non-corrosive.

Condition to avoid – High temperatures and Direct Sunlight.

11. TOXICOLOGICAL INFORMATION

Acute oral LD_{50} (rat) – >2,000 mg/kg

Acute dermal LD_{50} (rat) – >2,000 mg/kg

Skin Irritation – Non irritant

Eye irritation – Non irritant

Sensitisation – Product is not sensitising. Contains atrazine may cause an allergic reaction.

Carcinogenicity – Quickly absorbed, metabolised and secreted without significant retention in tissues.

Mutagenicity – Negative

Teratogenicity – Negative

12. ECOLOGICAL INFORMATION

Mobility –	(ai) Koc39 - 155.		
Ecotoxicity –	(ai) Rainbow Trout	LC_{50}	>100 mg/l (96hr)
	(ai) Daphnia magna	LC_{50}	>100 mg/l (48hr)
	(ai) Algae	LC_{50}	1.78 ug/l (72hr)
	(ai) Bees oral/contact	LD_{50}	>100 ug / bee

13. DISPOSAL

Do not empty into drains. This material and its container must be disposed of in a safe way.

Contact Local Authority (Environmental Health Department) or a reputable waste disposal company for collection and disposal of unwanted product or containers.

For further guidance on the disposal of containers, surplus spray solution, tank washings and concentrate, refer to Part 5 (Disposal of Pesticide Waste) of the MAFF/HSE booklet "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

14. TRANSPORT

UN Number – 3082

Packaging Group – III

Marine Pollutant –

ADR/RID Classification – 9, 11©

IMDG/IMO Classification – Not classified

Proper shipping name – ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID N.O.S (contains diflufenican).

15. REGULATORY INFORMATION

Hazard Symbol	– N		Dangerous for the environment.
Risk Phrases (R)	– R51/53		Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Safety Phrases (S)	– S35		This material and its container should be disposed of in a safe way.
		S36/37	Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

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

Packaging – Container: 1 litre HDPE.
Outer: 10 x 1 litre double wall carton.

Approval number – MAPP 12617