

Dancer Flow

(MAPP 11405)

Controls many annual
broad-leaved weeds in
beet crops



SIPCAM U.K.

Dancer Flow

(MAPP 11405)

A suspo-emulsion containing 160g/l (15.8% w/w) phenmedipham.

Controls many annual broad-leaved weeds in beet crops.

This leaflet is part of the approved product label.



DANGEROUS FOR THE ENVIRONMENT

Very Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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 IS A LEGAL REQUIREMENT

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops:	Sugar Beet, fodder beet, red beet and mangels
Maximum individual dose:	7.15 litres product per hectare
Maximum total dose:	7.5 litres product per hectare per season
Latest time of application:	Before the crop foliage meets between the rows
Operator protection:	Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment. See 'PRECAUTIONS' marked* However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection
Environmental protection:	See 'PRECAUTIONS' marked**

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.

SIPCAM UK CONDITIONS OF SUPPLY

All goods supplied by us are of high grade, but as we cannot exercise control over their mixing or use, all conditions and warranties, statutory or otherwise, as to the quality or fitness of our goods for any purpose, are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

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DFL 05-1

DIRECTIONS FOR USE

IMPORTANT

This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

INTRODUCTION

Dancer Flow is a selective herbicide for post-emergence use on beet crops.

CROPS

Sugar beet, fodder beet, red beet and mangels.

All varieties, including crops grown for seed, may be treated at any stage of growth from cotyledons fully expanded, providing the crop is not under stress.

CONDITIONS OF USE

Soil

As Dancer Flow is a contact material, its activity is not affected by soil type and it may be used on all soils, including fen peats.

Crop Tolerance

Under certain conditions Sugar Beet and other members of the Beet family are susceptible to checks by herbicides which are normally considered safe. Dancer Flow should not be used where crops are under stress from previous herbicide applications, insect attack, nutrient deficiency or where frost, low or high temperatures or wind damage may predispose the crop to a check, or where rolling or harrowing has been carried out within 7 days.

Under high light intensity or high temperatures the full rate of Dancer Flow should **not** be used and mixtures with oil should **not** be used under these conditions.

Rain

Do not apply Dancer Flow when rain is imminent. Dancer Flow is quickly absorbed by weeds and rain falling a few hours after application should have little effect on weed control.

WEED CONTROL

Correctly timed applications of Dancer Flow will control the following weeds, (up to and including the two true leaf stage using the full dose application, up to and including the cotyledon stage using the reduced dose repeat application).

Weeds Controlled (depending on correct dose and timing)

Black-bindweed	Common Hemp-nettle	Pale Persicaria
Bugloss	Common Orache	Red Dead-nettle
Charlock	Common Poppy	Scarlet Pimpernel
Common Chickweed	Fat-Hen	Shepherd's purse
Common Fumitory	Field Pansy	Small Nettle
Common Field Speedwell	Groundsel	Wild Radish

Moderately Susceptible (depending on correct dose and timing)

Corn Marigold	Forget-me-not	Knotgrass
Corn Spurrey	Ivy-Leaved Speedwell	Redshank
Field Pennycress		

Moderately Resistant (depending on correct dose and timing)

Black Nightshade	Cleavers	Scentless Mayweed
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Weeds Not Controlled

Dancer Flow will not control annual or perennial grasses or perennial broad-leaved weeds.

RATES OF USE AND TIMING

Dancer Flow acts by contact with the weeds and is most effective when the weed growth stages are at or before the two true leaf stage for the full dose application (7.15 l/ha) and when the

weeds are at the cotyledon stage for the repeat low dose application (2.5 l/ha). Where prolonged weed germination occurs, a programme of reduced rates of Dancer Flow is recommended.

OVERALL APPLICATION

Full Rate and Volume Application

Dose: 7.15 l/ha.

Volume: 240 litres of water per hectare.

Timing: Dancer Flow should be applied as soon as the largest weeds reach the two-leaf stage.

Equipment

Use fan or cone nozzles giving medium spray and a pressure of 2.0-3.0 bars. Adjust boom height to obtain a complete cover without overlap from adjacent nozzles when using cones.

Spraying conditions

Do not apply full rate Dancer Flow if the temperature is above 21°C on the day of spraying.

Use reduced rates or wait until the temperature drops in the evening before spraying.

Repeat Low Dose Programme

Dose: 2.5 l/ha.

Volume: 80 - 100 litres of water per hectare.

Equipment

Use fan or hollow cone nozzles which give a fine spray and are designed for low volume application, with a rated output of 300 - 600 ml minute at 3 bars. Fan nozzles should have a spray angle of at least 80°.

If in doubt consult the sprayer manufacturer. All equipment should be carefully checked for worn or damaged nozzles before use and calibrated to arrive at actual output figures. Working pressures of 3-5.5 bars give the best results, producing a fine spray and even coverage of the weeds.

Spraying conditions

Weeds are most susceptible to reduced rate applications from germination to the cotyledon stage. Up to three applications, at least five days apart, may be made to give extended control of later germinating weeds. The applications should be made when each flush of weeds is at the cotyledon stage. Some species may be checked by the first reduced rate application but may not be completely killed until the next application is made. Application of the reduced rate of Dancer Flow to weeds beyond the cotyledon stage will be ineffective.

Required nozzle output calculator

Nozzle output in ml/minute

Speed (km/hour)	Rate (l/ha)	Nozzle spacing		
		33cm	45cm	50cm
5	80	-	300	335
5	100	-	375	415
6	80	-	360	400
6	100	330	450	500
7	80	305	420	470
7	100	385	525	580
8	80	350	480	535
8	100	440	600	670

BAND APPLICATION

Dancer Flow may be applied as a band over the row using established techniques. Always use a matched set of nozzles.

Dose: 7.15 l/ha of band.

Under high temperature conditions, or when plants are under stress, reduce the rate to 6.0 litres per hectare of band. The above rates are based on a band width of 18cm with an application volume of 240 litres per hectare. Do not use reduced rates Dancer Flow as band sprays.

MIXING

SHAKE WELL BEFORE USE.

Add the recommended quantity of Dancer Flow to the spray tank half-filled with the required quantity of clean water. Add the remainder of the water with the sprayer agitation system in operation. On emptying the container, 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 container safely. Agitate before and during spraying. Do not leave the sprayer standing with chemical in it. After spraying, thoroughly wash out the spray tank.

SEQUENTIAL USE

Dancer Flow may be used in sequence with a pre- or post-emergence residual herbicide to extend weed control and improve the spectrum of control. Dancer Flow may be used following applications of approved formulations of ethofumesate/ chloridazon (Gremlin, MAFF 07284), or metamilon (Volcan, MAFF 02430), lenacil (MAFF 06907) or chloridazon (Better DF, Better Flo, MAFF 03438).

Do not apply Dancer Flow to any crop which shows signs of stress, particularly those grown on light soils in a wet season.

TANK-MIXES

Please consult your distributor for details of the range of products which may be tank mixed with Dancer Flow.

DANCER FLOW / Ethofumesate (M 08154) Tank-mixes

One application of 1.75 l/ha of Dancer Flow + 0.4 l/ha of Ethofumesate (M 08154) applied from crop growth stage cotyledons fully expanded, followed by up to 2 applications of 1.75 l/ha of Dancer Flow + 0.6 l/ha of Ethofumesate (M 08154) from crop growth stage 2 fully expanded true leaves. Weed growth stage should be up to the first true leaf fully expanded.

Where Dancer Flow is used in tank-mixes the other components should be diluted first in half the final volume of water before adding the Dancer Flow and the remainder of the water.

PRECAUTIONS

Operator Protection

- * WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate.
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection

- ** HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.

Storage and Disposal

KEEP CONTAINER, tightly closed, in a safe place.

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

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination.

SHAKE WELL BEFORE USE

STORAGE

Store in a safe, dry place designated as an agrochemical store.

RESISTANCE

Certain weeds may develop resistance to herbicide products. Since such circumstances are beyond our reasonable control, Sipcam UK Limited will be under no liability for any resulting loss or damage whatsoever.

TRADEMARKS

Volcan and Better are trademarks.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – Dancer Flow

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

Composition – Dancer Flow contains 160 g/l phenmedipham

Common name – Phenmedipham

CAS/EC no – 13684-63-4

Hazard Symbol – N

R phrases – R50/53

Concⁿ – 15.8% w/w

3. HAZARDS IDENTIFICATION

Critical Hazard to man – Not classified.

Critical Hazard to environment – Very 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 for a minimum of 15 minutes.

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, wash mouth thoroughly, do not induce vomiting, seek medical attention immediately.

Poisoning symptoms – No specific symptoms.

Treatment – No Specific antidote. Treat Symptomatically and Supportive.

Although phenmedipham is a carbamate pesticide it is NOT a cholinesterase inhibitor

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 CO₂, dry chemical powder, foam or water spray (in preference to water jet).

Specific hazards – Product and packaging are combustible and may give rise to poisonous fumes if burnt.

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

Specific Methods – If possible and without risk remove intact container from exposure to fire. 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. Use appropriate containment to avoid environmental contamination

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 Personal Protective Clothing as specified in Section 8. Avoid fumes – work in a well ventilated area.

Storage

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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 CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

KEEP OUT OF REACH OF CHILDREN.

AVOID ALL CONTACT WITH SKIN AND EYES.

DO NOT BREATHE SPRAY.

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standard (OES) – None assigned to the product.

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

Personal Protective Equipment

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

Where PPE cannot be cleaned, dispose of as contaminated waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

State – Liquid

Density – 1.0 g/l

Colour – White

Odour – Faint

pH (5% in water) – 4-5

Explosive properties – None

Flammability – Non combustible

Solubility – emulsifies in water

10. REACTIVITY AND STABILITY

Stability – Stable under normal ambient conditions

Condition to avoid – None in particular

Materials to avoid – None in particular

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ (rat) – >8,800 mg/kg

Acute dermal LD₅₀ (rat) – >2,800 mg/kg

Acute inhalation LC₅₀ (4h, rat) – >7.0 mg/m³ (m/f)

Skin Irritation – non irritant

Eye Irritation – non irritant

Sensitisation – Not sensitising

Carcinogenicity – Laboratory tests and human experience do not suggest carcinogenic hazard to man under normal use conditions

Mutagenicity – Laboratory tests and human experience do not suggest mutagenic hazard to man under normal use conditions

Teratogenicity – Laboratory tests and human experience do not suggest reproductive hazard to man under normal use conditions

12. ECOLOGICAL INFORMATION

Mobility – Log Pow 3.59 at 22°C @ pH4 (ai)

Ecotoxicity

Rainbow Trout	LC ₅₀	0.5 mg/l	(96hr)
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Daphnia magna	LC ₅₀	1.3 mg/l	(48hr)
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Mallard duck	LD ₅₀	>2,100 mg/kg	(ai)
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BeesLD ₅₀		not toxic to bees	(ai)
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13. DISPOSAL

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

UN Class – 9

Packaging Group – III

Marine Pollutant – P

ADR/RID Classification – 9 III 11c

IMDG/IMO Classification – 9 III 11P

Proper shipping name – 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (contains phenmedipham)

15. REGULATORY INFORMATION

Hazard Symbol – N, Dangerous for the environment

Risk Phrases – R50/53, Very Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Safety Phrases – S35, This material and its container must be disposed of in a safe way

– S57, Use appropriate containment to avoid environmental contamination

16. OTHER INFORMATION

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

Packaging

Container – 5 litre HDPE pack

Outer – 4 x 5 litre in double-wall carton

Approval number – MAPP 11405