

SPRAYFAST[®]

ADJ 0131

Sprayfast is an emulsifiable concentrate containing 334 g/l di-1-p-menthene for use in tank mixture with agricultural and horticultural chemicals to improve their performance

FOR USE ONLY AS AN AGRICULTURAL, HORTICULTURAL
WETTING, STICKING AND EXTENDING AGENT

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

R38 : Irritating to the skin
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S23 : Do not breathe spray
S24 : Avoid contact with skin
S60 : This material and its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/ safety data sheets



IRRITANT



DANGEROUS FOR
THE ENVIRONMENT

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate
WASH HANDS AND EXPOSED SKIN before meals and after work
WHEN USING DO NOT EAT, DRINK OR SMOKE
IF YOU FEEL UNWELL, seek medical advice (show label where possible)
DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container
KEEP IN ORIGINAL CONTAINER tightly closed in a safe place
WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely
DO NOT REUSE CONTAINER for any purpose
KEEP OUT OF REACH OF CHILDREN



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Sprayfast is a Registered Trade Mark of mandops(UK) Ltd

net contents
1 litre

SPFB10704

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

FOR USE ONLY AS AN AGRICULTURAL AND HORTICULTURAL WETTING, STICKING
AND EXTENDING AGENT

Crops	Pesticides	Maximum concentration (% spray solution)	Maximum number of treatments	Latest time of application
All edible crops	All approved pesticides at half or less than half rate	0.125	Follow the statutory conditions of use for the pesticide	Follow the statutory conditions of use for the pesticide
All edible crops	All approved fungicides, herbicides, insecticides	0.125	Follow the statutory conditions of use for the pesticide	4 weeks before harvest of crops intended for human or animal consumption
Cereals	All approved formulations of glyphosate	0.25	Follow the statutory conditions of use for the pesticide	7 days before harvest
Cereals (post harvest)	All approved formulations of glyphosate	0.25	Follow the statutory conditions of use for the pesticide	Follow the statutory conditions of use for the pesticide

Operator protection* 1) Follow all operator protection instructions for the pesticide
2) Wear any personal protective equipment specified in the conditions of use
for the pesticide concerned

Environmental* Since this product is harmful to fish and other aquatic life, surface waters
protection or ditches must not be contaminated with the chemical or used container
Other specific* This product must not be used with herbicides applied as desiccants, other
restrictions than those containing glyphosate, unless applied at half or less than half of
the approved pesticide rate

READ ALL PRECAUTIONS BEFORE USE

ADJ. No. 0131
SPFC10704

SPRAYFAST

INSTRUCTIONS FOR USE

SPRAYFAST is an emulsifiable concentrate containing 334 g/l di-1-p-menthene for use in tank-mixture with agricultural and horticultural chemicals to improve their performance. SPRAYFAST may also be used as an anti-transpirant.

SPRAYFAST is based on a unique polymeric terpene coating agent which holds tank-mixed chemicals onto plants in a rainfast form, protected against degradation by sunlight and against volatilization at high temperatures. The coating agent then slowly releases the active chemicals so that they are available to the plant. This reduces phytotoxicity but greatly extends the action of the spray chemicals. Phytotoxicity is normally the result of a very rapid uptake of a chemical, during the first few hours after spraying, by plants which are only relatively resistant to that chemical. In the case of weed killing, a delay of a day or two may be introduced by the use of SPRAYFAST, although a more certain kill is obtained. SPRAYFAST is thus quite unlike other additives, in that it is designed to slow down rather than speed uptake of spray chemicals by treated plants. The SPRAYFAST coating is fully formed approximately 30 minutes after the spray has dried on the leaves of treated plants, although a high degree of rainfastness will be obtained as soon as the spray is dry.

When using SPRAYFAST with spray chemicals for which a range of application rates are suggested, the SPRAYFAST will enable the chemicals to be used effectively at the lowest rate recommended for the intended purpose or at the longest recommended intervals between sprays.

CROPS

There are no crop restrictions on the use of SPRAYFAST although **SPRAYFAST must not be used in combination with herbicides applied to pea crops.**

EDIBLE CROPS

SPRAYFAST may be used on ALL edible crops in tank mixture with ALL approved fungicides, herbicides and insecticides.

Cereal crops:

SPRAYFAST is of especial use in extending the persistence and improving the performance of fungicides and insecticides. When used with herbicides, including blackgrass herbicides, the reduction in the very rapid initial uptake of herbicide can improve crop safety whilst the actual weed kill, possibly slightly delayed, is improved. This may be particularly marked where conditions are unfavourable to herbicide effectiveness.

Potatoes:

SPRAYFAST is of particular value when used with blight fungicides and its use should be regarded as essential where irrigation is carried out or when showery weather prevails.

Sugar beet:

SPRAYFAST replaces oils and/or surfactants used as additives with "low rate" applications of herbicides. Such applications are rainfast within 30 minutes of drying on the crop and can reduce the risk of phytotoxicity.

Vegetable brassicas:

As well as its ability to confer rainfastness and increase the persistence of fungicides and insecticides, SPRAYFAST is an excellent additive to provide adhesion and "creep" on waxy leaved brassicas and other difficult-to-wet plants, such as onions.

Use with glyphosate:

SPRAYFAST replaces all other oils and/or surfactants used as additives with "low rate" applications of glyphosate. In addition to improved activity, rainfastness is achieved within 30 minutes of drying on the leaf, with a high level of resistance to rainfall from the moment that the spray is dry on the leaf.

ANTI-TRANSPIRANT USES:

In addition to its use tank-mixed with spray chemicals, SPRAYFAST may also be used as an anti-transpirant for vegetables before transplanting, on evergreens, deciduous trees, shrubs, bushes, ornamental plants and on turf. SPRAYFAST will control water loss on transplanting, needle drop from Christmas trees, winter kill, damage from road spray containing de-icing salts and also speed the establishment of a lawn from turf.

VARIETAL RESTRICTIONS

When SPRAYFAST is applied to blue-leaved evergreens, these will turn green until a new season's growth occurs.

APPLICATION IN TANK MIXTURE WITH OTHER PESTICIDES**Ground Application:**

Apply at 0.25 litres per hectare (3.6 fluid oz. per acre) in at least 200 litres per hectare (18 gallons per acre) of spray mixture. The maximum permitted concentration of SPRAYFAST is 0.125% of the spray mixture, except when used with glyphosate.

With glyphosate herbicide:

Where a high degree of rainfastness is required with approved formulations of glyphosate herbicide, SPRAYFAST should be applied in tank-mixture at a rate of 0.5 litres per hectare (7.2 fluid oz. per acre) in at least 200 litres per hectare (18 gallons per acre) of spray mixture. Where this higher rate of SPRAYFAST is used, the lowest label recommended rate of glyphosate herbicide may be used for weed control. On cereals (post harvest) the maximum permitted concentration of SPRAYFAST is 0.125% of the spray mixture.

SPRAYFAST may be used at 0.6l/ha with up to 4.0l/ha of 360g/l glyphosate (e.g. Roundup Biactive MAFF 06941) or equivalent rates of other glyphosate formulations (e.g. Stride MAFF 06750) pre-harvest of cereals up to 7 days before harvest. The cereal crop should contain less than 30% grain moisture at the time of treatment.

MAXIMUM NUMBER OF TREATMENTS

Follow the pesticide statutory conditions of use.

COMPATIBILITY

SPRAYFAST may be used in tank-mixture with all approved fungicides, herbicides, insecticides and plant growth regulators.

Nutrients: SPRAYFAST may be used in tank-mixture with the Mandops TRACEY range of trace elements, boron salts, chelated trace elements, copper, iron, magnesium, manganese, micronutrients, sulphur and other trace elements.

Multiple tank-mixtures: Provided that all product recommendations are followed, SPRAYFAST may be used in tank-mixture with mixtures containing fungicide(s), herbicide(s), insecticide(s) and trace elements.

APPLICATION AS AN ANTI-TRANSPIRANT COATING

Use as a 2.5% solution in water (1 litre in 40 litres of solution or 1 pint in 5 gallons of solution) as a spray or as a plant dip.

METHOD OF APPLICATION

Transplants:

Apply as a dip to small plants. DO NOT dip the roots of the plants. For Christmas trees, shrubs, evergreens, deciduous trees (including container-grown stock for planting out), where dipping is not practicable, apply a sufficient volume, as a spray, to thoroughly wet the needles or leaves.

CAUTION: Blue leaved evergreens such as the blue spruce will turn green on treatment and remain green until a new season's growth occurs.

Turf:

Apply 450 litres per hectare (40 gallons per acre) of a 2.5% solution of SPRAYFAST, preferably 24 hours before lifting turf. Application may be made, however, immediately following laying.

For example:

Prepare 450 litres of spray containing 11.25 litres of SPRAYFAST to treat 1 hectare (or 13 pints of spray containing 6.7 fl. oz. of SPRAYFAST to treat 200 square yards).

MIXING

SHAKE WELL BEFORE USE. Add to the spray tank containing half the required volume of water with agitation. Continue agitating whilst topping up the tank and spraying.

AUTHORISATION NUMBER

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