

SPRAYGARD®

ADJ 0394

Spraygard is an emulsifiable concentrate containing 400 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



DAINGEROUS 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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Spraygard is a Registered Trade Mark of mandops (UK) ltd

net contents
2.5 litre

**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	0.1	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	0.1	Follow the statutory conditions of use for the pesticide	4 weeks before harvest of crops intended for human or animal consumption
Cereals (post harvest)	All approved formulations of glyphosate	0.2	Follow the statutory conditions of use for the pesticide	Follow the statutory conditions of use for the pesticide

Operator protection Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment

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

Environmental
protection

Since this product is harmful to fish and other aquatic life, surface waters or ditches must not be contaminated with the chemical or used container

Other specific
restrictions

- 1) The latest time of application on edible crops intended for human or animal consumption with pesticides at greater than half the approved rate is 4 weeks before harvest
- 2) This product must not be used with herbicides applied as dessicants unless applied at half or less than half of the approved pesticide rate

READ ALL PRECAUTIONS BEFORE USE

ADJ 0394

SPGB20704

SPRAYGARD

DIRECTIONS FOR USE

SPRAYGARD 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 SPRAYGARD, although a more certain kill is obtained. SPRAYGARD 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 reduction of pesticide phytotoxicity is a major benefit and SPRAYGARD is almost unique in its ability to safen many pesticides, especially herbicides.

The SPRAYGARD 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 SPRAYGARD with spray chemicals for which a range of application rates are suggested, SPRAYGARD 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 SPRAYGARD although SPRAYGARD must not be used in combination with herbicides applied to pea crops.

EDIBLE CROPS

SPRAYGARD is authorised for use on ALL edible crops in tank mixture with ALL approved fungicides, herbicides and insecticides, provided that the pesticide is approved for use on the crop.

When used with pesticides at greater than half the recommended rate, the last application must take place at least 4 weeks before the harvest of crops intended for human or animal consumption.

Cereal Crops

SPRAYGARD 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 herbicides 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

SPRAYGARD 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

SPRAYGARD 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, SPRAYGARD 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

SPRAYGARD 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, SPRAYGARD may also be used as an anti-transpirant for vegetables before transplanting, on evergreens, deciduous trees, shrubs, bushes, ornamental plants and on turf. SPRAYGARD 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 SPRAYGARD is applied to blue-leaved evergreens, these will turn green until a new season's growth occurs.

APPLICATIONS IN TANK MIXTURE WITH OTHER PESTICIDES†)

Ground Application

Apply at 0.1 to 0.2 litres per hectare in at least 200 litres per hectare of spray mixture. The maximum permitted concentration of SPRAYGARD is 0.1% 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, SPRAYGARD should be applied in tank-mixture at a rate of 0.4 litres per hectare in at least 200 litres per hectare of spray mixture. Where the higher rate of SPRAYGARD 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 SPRAYGARD is 0.2% of the spray mixture.

SPRAYGARD may be used at 0.5l/ha with up to 4.0l/ha of 360g/l glyphosate product (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

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

Nutrients: SPRAYGARD may be used in tank-mixture with trace elements such as 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 SPRAYGARD may be used in tank-mixture with mixtures containing fungicide(s), herbicide(s), insecticide(s) and trace elements.

MIXING

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

APPLICATION AS AN ANTI-TRANSPIRANT COATING

Use as a 2% solution in water (1 litre in 50 litres 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 of a 2% solution of SPRAYGARD, preferably 24 hours before lifting turf. Application may be made, however, immediately following laying. For example: Prepare 450 litres of spray containing 9 litres of SPRAYGARD to treat 1 hectare.

Company Advisory Information for SPRAYGARD

This section is not part of the Product Label under the Control of Pesticides Regulations 1986 or the Plant Protection Products Regulations 1995, but it provides additional advice on the use of the product.

An important use of SPRAYGARD is that by acting as a physical barrier to water entry, it can reduce the risk of sprouting in the ears of cereal crops, preserve Hagberg values and maintain grain quality.

Thus applications of SPRAYGARD, either as a single application at about 30% moisture or as a split application at anthesis and again at GS 87 or 30% moisture, will provide an excellent way of preserving the quality of a harvested crop. It will do this by helping to prevent sprouting in lodged crops, delaying the decline in Hagberg values, controlling the loss of malting and milling quality and reducing the shedding of grain. Additionally, germination quality is maintained in crops grown for seed.

Apply 0.4 litres per hectare of SPRAYGARD in 200 to 250 litres of water per hectare at GS 87 or 30% moisture content if used alone.

SPRAYGARD is also particularly useful if applied as a split dose, with the initial application of 0.2 litres per hectare being applied at GS 60 with the last fungicide application (thus prolonging fungicide activity and making it rainfast) and a further 0.2 litres per hectare being applied either with glyphosate at its recommended timing and rate or alone at 30% moisture content or GS 87.

NB Whilst SPRAYGARD applications can effectively control seed loss and loss of grain quality caused by moisture, Mandops cannot guarantee that a premium will be obtained, or that there will be no sprouting or seed shedding.

AUTHORISATION NUMBER

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