MAPP 20199

A non-selective residual herbicide for use on natural surfaces not intended to hear

vegetation, permeable surfaces overlying soil, hard surfaces (railway ballast only) and amenity vegetation (around).

A water dispersible granule formulation containing 25% w/w flazasulfuron







@ Registered trademark of Ishihara Sangyo Kaisha Liid; Japa Content

see packaging

EOR LISE ONLY AS AN INDUSTRIAL HERRICIDE FOR PROFESSIONAL USE ONLY PROTECT FROM FROST

Regulations may apply to the use of this product at work

Technical enquiries: 0845 3730305



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Marketing Gompany: Certis Belchim BV Suite 5: 3 Riverside, Granta Park Great Abinoton, Cambridgeshire CB21 6AD Tal - 01223 A52500 Linfo uk@nartishalchim.com www.certishelchim.co.uk

Katana - a water dispersible granule formulation containing 25% w/w flazasulfuron LIFE: SM 12-KOS4-0V0LLSLIP9

H410 Very toxic to aquatic life with long lasting effects.

P391 Collect spillage.

contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

EUH210 Safety data sheet available on see EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

-IMPORTANTINFORMATION FOR USE ONLY AS AN INDUSTRIAL HERBICIDE						
Crops/situations			Maximum number of treatments: [per year]			
Hard surfaces (a liver) to last only) matural surfaces not intended to boar vegit ration, permission surfaces one king soil and aments, vegetables (around)	190		1	· ·		

- This product must not be applied to any non-porous man made Assessment for Pesticides (LERAP) scheme. A LERAP must be carried out in accordance with CRD's published a Idance before each spraying operation from the horizontal boom sprayer. The results of the LERAP - To avoid the build up of resistance do not apply this or any other must be accorded and kent available for three years.

This population was only be used on natural or porous surfaces such as of prass-weeds more than once per year. and radiose had set surfaces

surfaces care must be taken not to overspray those surfaces product containing an ALS inhibitor herbicide with claims for control. cases where the user can establish that the underlying surface is soil. - Extreme care must be taken to avoid soray drift onto non-target vegetation

surfaces. Where treated areas are close to non-porous man made

READ THE LAREL REFORE LISE LISING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LAREL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

WARNING

SAFETY PRECAUTIONS

Operator protection

ENGINEERING CONTROL OF OPERATOR EXPOSURE must be used where reasonably practicable in addition to the following personal protective equipment: • WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces.

 WEAR SUITABLE PROTECTIVE CLOTHING (impermeable coveralls), SUITABLE

WEAK SUITABLE PROTECTIVE CLOTHING (impermeable coveralls), SUITABLE
PROTECTIVE GLOVES and RUBBER BOOTS when applying by hand-held
equipment.
 However, engineering controls may replace personal protective equipment if a

COSHH assessment shows they provide an equal or higher standard of protection

• WASH ANY CONTAMINATION from skin or eyes immediately.

• WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of

WASH CONCENTRATE from skin or eyes immediately.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental protection

DO NOT ALLÓW DIRECT SPRAY from h.
 who say the say of the bank of any say whites a local because ratal Risk Assessment for says says. The point is parrow for a zone, or within I'm of the top of a sum with the say of the lamb of the top of the bank of the say of the bank of the says of t

any static or flowing water body. Direct spray away from water.

• DO NOT ALLOW DIRECT SPRAY from train sprayers to fall within 5m of the top of the bank of a state of flowing water body. Do not allow direct overspray of static or flowing surface waters.

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Use appropriate containment to avoid environmental contamination.

Storage and disposal

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

EMPTY CONTAINER COMPLETELY and dispose of safely.
 KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
 This material and its container must be disposed of in a safe way.

Resistance

KATANA contains flazasulturion which is an ALS inhibitor, also classified by the Herbicide Resistance Act on Committee as "Group 2". Use binly as part of a resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of weed control.

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The following measures are part of the resistance management strategy:

- Follow label recommendations
- Adopt complimentary weed control practices
- . Use good spraying practice to maintain effective weed control
- Use the correct nozzles to maximise coverage
- Apply under appropriate weather conditions
- Monitor performance and report any unexpected results to your product manufacturer.
- Rotational use with herbicides with differing modes of action.
- For post-emergence weed control KATANA must be applied in tank mixture with another herbicide with a different mode of action (e.g., glyphosate).
- . Only one application of KATANA may be made per year.

DIRECTIONS FOR USE

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

SITUATIONS

KATANA can be used on natural surfaces not intended to bear vegetation, permeable surfaces overlying soil and hard surfaces (railway ballast only) and in amenity vegetation (around).

Amenity vegetation (around)

KATAMA can be used around amenity plantings for the control of weeds not emerged at the time of spaying. Typical areas for teatment will include landscapped areas, roadsides and parks. Trials have been conducted to evaluate the susceptibility of a large number of trees and shrubs that could be exposed to spray different during application to parks or amenity shrub beds; when using Kirthäha parifigst amenity plantings, extreme care must be taken to avoid contact with or drift onto desirable plants such as crops, trees or ornamentals clime shrubs or betain not to spray too close to shallow-rooted species and so to species secentially to up from the soil (see next section SUSEPTIBLET you'll FONDAT RATES I SPCCIEST The use of low drift nozzles and/or shoulded hooded sprayers should we used to application drift.

Note: Treatment should not be made near to species that have been planted for less than 2 years.

Timing of application. Treatment should be made when amenity vegetation is domain or in the very early stages of growth.

SUSCEPTIBILITY OF NON-TARGET SPECIES

Thats have been conducted to evaluate the susceptibility of a large number of trees and shrubs that could be exposed to spray drift particularly during application to parks or amenity shrub beds. Trees and shrubs can be distributed in 3 categories of susceptibility.

Category	Species	Comment
Tolerant to soil and foliar application	Himalayan Birch (Betula utilis)	
Tolerant to soil application but can be susceptible to foliar application.	Hone Chestrut (Asceulus Medical Phipocastamus), Sci Tieric (Bertula versucosa), Besterin y are tibudicia durcial Control Sci (Busun and Sci (Bester))), and the sci (Bester) of the sci (B	For the assesses to large my, and the exposed to sonly drift, particular sorting active growth
Susceptible to both soil and foliar application	Red-barked Dogwood (Cornus alba), Japanese Privet (Ligustrum japonicum), Chinese Privet (Ligustrum sinense), Common Privet (Ligustrum vulgare), Common Lilac (Syringa vulgaris)	Treatment close to these species is not recommended

Note: When applying near other species, large areas should NOT be treated until a small area has been test sprayed to show the variety to be safe for treatment.

TIMING AND WEATHER

KATANA is active on many plant species.

For best results, apply KATANA before weeds germinate. If weeds are present, tank mix with a suitable foliar herbicide, when the weeds are small and growing actively.

Avoid post-emergence application to weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result. It is important, that all weeds are at the correct growth stage when treated, otherwise

some re-growth may occur and this will need re-treatment.

Do not apply KATANA in windy conditions or using a high pressure which produces

a fine spray prone to drifting.

DO NOT apply within 12 months to soils which may later be used to grow crops or plants.

Avoid overdosing. Extreme care must be taken to avoid drift onto desirable plants such as crops, trees or ornamentals.

Treatment'should not be made near to species that have been planted for less than 2 years.

COMPATIBILITY

KATANA may be tank mixed with various glyphosate products registered in UK.

For further information on compatibilities, please consult the manufacturer for details.

DOSE RATE, WATER VOLUME, TIMING OF SPRAYING

Pre-emergence:

Apply 150 g KATANA per hertage to control weeds for up to 5 months. Use in 200 to 600 litres water. And the recommended quantity of KATANA to

Half fill the sorary tank with water. And the recommended quantity of KATANA to water. Agitate thoroughly and top up the tank with water. Do not store the spray solution overnight in the sorary tank.

Bast results will be obtained when KATANA is applied in early to late spring before new weeds have committee.

There are currently no data available on the effectiveness of KA and used premergence on mallows, broad-leaf dock, ragword, creeping thistle on our on nettle. KATANA will not control Fat hen (Chenopodium and the state of the control Fat hen (Chenopodium and the control Fat hen (Chenopodium and Chenopodium and Cheno

Post-emergence:

KATANA Pollmited togens, try, For senergence weed control, KATANA pollmited togens, try, For senergence weed control, CATANA per hectare will provide of control try, try, and the recommended quantity of KATANA water. Age, locouply, Add the recommended quantity of pather are and up to tank with water mantaining agitation. Do not store the

Usents where water volume where weed populations are dense. There are currently no data available on the effectiveness of KATANA when used in tank-nisture for post emergence control of mallows, broad leaf dock or common couch. There are currently only limited data available on the effectiveness of KATANA when used in ask-misture for post-emergence control of common nettle. KATANA in tank mix with a specified tank mix ganter will give short-term control only \$A months; with a specified tank mix ganter will give short-term control only \$A months; Native Rocket (Ericustarum gallicum), Smooth Cat's Ear (Hypochoers glabra), Scrattara (endera), Common Ragyout (Serecio jacobaea) or Common Dandelion (Taraxacum officinalis). Spear Thistle (Cirsium vulgare) and Ribvott Plantain (Plantago Innecolata).

APPLICATION FOUIPMENT

Apply using a hydraulic sprayer or a knapsack sprayer, choosing a nozzle type to obtain the stated water volume and giving a MEDUM spray quality (BCPC definition). Use a spray pattern that enables good coverage of the larger weeds to be achieved. Before spraying it is important to check all hoses, filters and nozzles, and to ensure that the sprayer is clean and correctly set to give an even application at the correct volume. The use of shrouded/hooded sprayers should be employed to reduce the potential for drift when applying around amenity areas in particular.

Maintain agitation during spraying as well as during mixing.

Avoid spray drift onto non-target plants and desired vegetation and areas where plantings are planned as serious damage to these plants may occur.

PROCEDURES FOR CLEANING APPLICATION EQUIPMENT

- To prevent damage to any subsequently treated desired plants, application equipment should be cleaned using a diluted ammonia solution as follows.

 1. Immediately after spraying, drain tank completely. Any confamiliation or the outside of the spraying equipment should be removed by washing with clean water.
- Rinse inside of tank with clean water and flush through booms and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
- 3. Depending on the concentration of concentrate must be difficient of 25% concern of ammonia in water concentrate at 15% or be 15 ya as de d. (A commercial concentrate at 15% or be 15 ya water to each 11 of ammore concern mercial concentration of the concern mercial concentration of the concern mercial concentration of the concern mercial concern mercial concentration of the concern mercial concernment of the concernment
- Nozzles and filters should be removed and cleaned separately with ammonia solution at the same concentration as used in the sprayer.

- Rinse the tank with clean water and flush through the boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
- For the disposal of washings, follow Code of Practice for Using Plant Protection Products. Do not spray onto sensitive crop as land intended for cropping with sensitive crop.

NOTE: If it is not possible to drain the lank completely, step 3 must be repeated before going on to step $4\,$

WARRANTY/DAMAGES : ISS Elioscences Europe N.V. as the Seller, shall be under no liability levested for liability for easily opposition properties of liability for easily opposition provided in the seller) whether in contract or in not for or in respect of any case h damage eaching from an arising out of the mixing or sequential use, of the goods with any other goods (whether the Seller or any thirt-party) otherwise thin in nucrodance with the Seller's Recommendations for Use, or resulting from or ansity 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 on or 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 OR code or use the weblink below:

WEBLINK to specific data sheet on manufacturer's website:

www.certisbelchim.co.uk/pdf/MSDS/Katana_MSDS.pdf



Alternatively, contact your supplier.