



DualGold®

syngenta®

FOR PROFESSIONAL USE ONLY



To avoid risks to human health and the environment, comply with the instructions for use.

Emulsifiable concentrate containing 960 g/l S-metolachlor.

Warning

May cause an allergic skin reaction.

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies. Direct spray away from water.

PCS No. 04192 MAPP 14649 UFI: QR76-WPXY-P004-76HW

GROUP 15 HERBICIDE



Product registration number: MAPP 14649; PCS No. 04192
UFI: QR76-WPXY-P004-76HW

Emulsifiable concentrate containing 960 g/l S-metolachlor.

Controls annual meadow-grass, some other annual grasses and some broad-leaved weeds in forage and grain maize.

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

In case of toxic or transport emergency ring +44 (0)1484 538444 any time.

PROTECT FROM FROST

Authorisation holder & UK Marketing Company

Syngenta UK Ltd.,
CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE
Tel: +44 (0)1223 883400

Irish Marketing Company

Syngenta Ireland Ltd.,
Block 6, Cleaboy Business Park, Old Kilmeadan Road, Waterford
Tel: (051) 377203

This product label is compliant with the CPA
Voluntary Initiative (VI) guidance (UK only)



The
Voluntary
Initiative

L1088357 GBR/04A PPE 4160348

5 litres

Product names marked ® or ™, the ALLIANCE FRAME™, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum individual dose (litres/product/ha)	Maximum number of treatments	Latest time of application
Forage and Grain Maize	1.4	One per crop	Pre-emergence

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

ADDITIONAL SAFETY INFORMATION

(a) Operator protection (COSHH applies to the UK only)

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection (LERAP applies to the UK only)

To protect aquatic organisms respect an unsprayed buffer zone distance to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m from 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 Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results from the LERAP must be recorded and kept available for three years.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

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 safely.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.



This leaflet is part of the approved Product Label.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

DUAL GOLD is a soil active herbicide and is taken up by weed roots. It is active against a range of annual grasses and broad leaved weeds in maize production.

WEEDS CONTROLLED

DUAL GOLD controls a range of annual grasses and broad-leaved weeds in maize.

Susceptible Weeds	Moderately Susceptible Weeds
Annual meadowgrass	Cockspur grass
Red Deadnettle	Common Chickweed
Mayweed	Common Amaranth
Sow Thistle	Fat Hen
Common Field Speedwell	
Moderately Resistant Weeds	Resistant Weeds
Black Nightshade	Redshank

CROP SPECIFIC INFORMATION

Crops

DUAL GOLD can be used on all varieties of maize.

Timing

Use DUAL GOLD pre-emergence of the crop and weeds.

Rates of use

Forage and Grain Maize

Use pre crop emergence for annual meadow-grass, some annual grasses and some broad leaved weed control.

Apply DUAL GOLD post drilling and pre crop emergence when soils are moist or rain is expected imminently. Do not apply DUAL GOLD at the point of emergence of the crop. Cockspur grass should not be beyond the 1-2 leaf stage at the time of application.

Dose: 1.4l/ha DUAL GOLD.

Use of adjuvants

No adjuvant is needed with DUAL GOLD.

FOLLOWING CROPS

There are no known adverse effects to following crops after the application of DUAL GOLD to maize.

MIXING AND SPRAYING**Mixing Procedure**

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add the required amount of DUAL GOLD to the spray tank and allow to disperse before adding any other product. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying.

Spray Volume

Spray DUAL GOLD in 200 - 400 litres of water per hectare.

Application methods

Apply through a conventional field crop sprayer using a pressure of 2-3 bars. Ensure the sprayer is correctly calibrated before use.

Do not leave spray liquid in the sprayer for long periods (i.e. overnight).

After Use

It is important to wash equipment thoroughly after use to remove all traces of DUAL GOLD[®] as even small amounts may cause damage to crops. Rinse inside of tank with clean water using at least one tenth of the spray tank volume. After flushing through pump and spray lines, drain and repeat procedure.

Disposal of spray tank washings should be in accordance with local or national legislation.

Section 6 of the Health and Safety at Work Act
Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations 1995)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

Safety Data Sheet

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/
UNDERTAKING**

1.1 Product Identifier

Product Name: DUAL GOLD
Design Code: A9396G

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Use: Herbicide

1.3 Details of the supplier of the safety data sheet

Company: Syngenta UK Ltd
CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE
Phone: (01223) 883400
Fax: (01223) 882195
Website: www.syngenta.co.uk

1.4 Emergency telephone number

Emergency phone No.: +44 (0) 1484 538444 (24h)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Skin sensitisation	Sub-category 1A	H317
Eye irritation	Category 2	H319
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi, Irritant.


N, Dangerous to the environment.

R43: May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
Signal Word	Warning	
Hazard Statements	H317 H319 H410	May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P102 P280 P302/P352 P305/P351/ P338 P337/P313 P363 P391 P501	Keep out of reach of children Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- S-metolachlor

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)		
	HARMFUL	DANGEROUS FOR THE ENVIRONMENT
R-phrases(s)	R43 R50/53	May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	S2 S13 S20/21 S35 S36/37 S57	Keep out of the reach of children. Keep away from food, drink and animal feedstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves. Use appropriate containment to avoid environmental contamination.
Special labelling of certain mixtures	To avoid risks to man and the environment, comply with instructions for use.	

Hazardous components which must be listed on the label:

- S-metolachlor

2.3 Other hazards

None known.

TEXT AREA
98 x 130 mm

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous Component(s)

Chemical Name	CAS No. EC No. Registration Number	Classification (67/548/EEC)	Classification (REGULATION (EC) No. 1272/2008)	Concentration
S-metolachlor	87392-12-9	Xi, N R43 R50/53	Skin Sens.1B; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	86.5 % w/w
solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 922-153-0 01-2119451097-39-0002	Xn, N R51/53 R65 R66	Asp. Tox.1; H304 Aquatic Chronic2; H411	1 - 5 % w/w
calcium dodecylbenzene sulphonate	26264-06-2 84989-14-0 90194-26-6 247-557-8 284-903-7 290-635-1	Xi R38 R41	Skin Irrit.2; H315 Eye Dam.1; H318	1 - 5 % w/w
poly(oxy-1,2-eth anediyl)-[2,4,6-tris(1-phenylethyl) phenyl]-hydroxy-	99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	1 - 5 % w/w
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23-0012	Xi R10 R37/38 R41 R67	Flam. Liq.3; H226 STOT SE3; H335 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336	1 - 2 % w/w

Substances for which there are Community workplace exposure limits

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-statements mentioned in this Section, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin Contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do **NOT** induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most Important symptoms and effects, both acute and delayed

Symptoms: Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam or Water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.

Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8

Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
S-metolachlor	10 mg/m ³	8 h TWA	SUPPLIER
2-methylpropan-1-ol	1,600 ppm 50 ppm 100 ppm 50 ppm 100 ppm 50 ppm, 231 mg/m ³	8 h TWA 15 min STEL 8 h TWA 8 h TWA 8 h TWA	NIOSH SUVA SUVA ACGIH DFG UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering Measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection: Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.

Eye protection: Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate: impervious protective suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State:	liquid
Form:	liquid
Colour:	light yellow to dark brown
Odour:	No data available
Odour Threshold:	No data available
pH:	4 - 8 at 1% w/v
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Flash point:	81 °C at 101.6 kPa Pensky-Martens c.c.
Evaporation rate:	No data available
Flammability (solid, gas):	No data available

Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	1.11 g/cm ³
Solubility in other solvents:	No data available
Partition Coefficient n-octanol/water:	No data available
Autoignition temperature:	425 °C
Thermal decomposition:	No data available
Viscosity, dynamic:	128 mPa.s at 20 °C 36.6 mPa.s at 40 °C
Viscosity, kinematic:	No data available
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidising

9.2 Other Information

Surface tension:	32.1 mN/m at 20 °C
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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:	No information available.
10.2 Chemical Stability:	No information available.
10.3 Possibility of hazardous reactions:	None known. Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	No information available.
10.5 Incompatible materials:	No information available.
10.6 Hazardous decomposition products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity:	LD50 female rat, 2,149 mg/kg LD50 male rat, 3,937 mg/l The toxicological data has been taken from products of similar composition.
Acute inhalational toxicity:	LC50 male and female rat, > 5.09 mg/l, 4 h The toxicological data has been taken from products of similar composition.
Acute dermal toxicity:	LD50 male and female rabbit, > 2,020 mg/kg The toxicological data has been taken from products of similar composition.
Skin corrosion/irritation:	Rabbit, slightly irritating. The toxicological data has been taken from products of similar composition.
Serious eye damage/eye irritation:	Rabbit, moderately irritating The toxicological data has been taken from products of similar composition.
Respiratory or skin sensitisation:	Maximisation Test guinea pig, a skin sensitiser in animal tests. The toxicological data has been taken from products of similar composition.

Germ cell mutagenicity

S-metalochlor:	Did not show mutagenic effects in animal experiments.
Calcium dodecylbenzene sulphonate:	Did not show mutagenic effects in animal experiments.
2-methylpropan-1-ol:	Did not show mutagenic effects in animal experiments.

Carcinogenicity

S-metalochlor:	Did not show carcinogenic effects in animal experiments.
Calcium dodecylbenzene sulphonate:	Did not show carcinogenic effects in animal experiments.
2-methylpropan-1-ol:	Did not show carcinogenic effects in animal experiments.

Teratogenicity

S-metalochlor:	Did not show teratogenic effects in animal experiments.
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Reproductive toxicity

S-metalochlor:	Did not show reproductive toxicity effects in animal experiments.
Calcium dodecylbenzene sulphonate:	Did not show reproductive toxicity effects in animal experiments.
2-methylpropan-1-ol:	Did not show reproductive toxicity effects in animal experiments.

STOT – single exposure

2-methylpropan-1-ol:	May cause drowsiness or dizziness.
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STOT – repeated exposure

S-metalochlor:	No adverse effect has been observed in chronic toxicity tests.
Calcium dodecylbenzene sulphonate:	No adverse effect has been observed in chronic toxicity tests.
2-methylpropan-1-ol:	No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

Solvent naphtha (petroleum), highly arom.:

TEXT AREA

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 8.8 mg/l, 96 h
Toxicity to aquatic invertebrates:	EC50 <i>Daphnia magna</i> (water flea), 28 mg/l, 48h
Toxicity to aquatic plants:	EC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 0.09 mg/l, 96 h

12.2 Persistence and degradability

Biodegradability:

S-metalochlor: Not readily biodegradable.

Stability in water

S-metalochlor: Degradation half life: 53 - 147 d. Not persistent in water

Stability in soil

S-metalochlor: Degradation half life: 12 - 46 d. Not persistent in soil

12.3 Bioaccumulative potential

S-metalochlor: Does not bioaccumulate.

12.4 Mobility in soil

S-metalochlor: Medium mobility in soil.

12.5 Results of PBT and vPvB assessment

S-metalochlor: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Other information: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	:	III
	Labels	:	9
14.5	Environmental hazards	:	Environmentally hazardous

Sea transport (IMDG)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	:	III
	Labels	:	9
14.5	Environmental hazards	:	Marine pollutant

Air transport (IATA-DGR)


14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	:	III
	Labels	:	9
14.6	Special precautions for user	:	None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture
GHS-Labeling

Hazard pictograms		
Signal Word	Warning	
Hazard Statements	H317 H319 H410	May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P102 P280 P302/P352 P305/P351/ P338 P337/P313 P363 P391 P501	Keep out of reach of children Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- S-metolachlor

15.2 Chemical Safety Assessment

A chemical safety assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 14639.

Use plant protection products safely. Always read the label and product information before use.

Based upon SDS release dated 02/04/2014, version 3 with local amendment.

Full text of R phrases referred to under Section 2 and 3:

- R10 Flammable.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

- R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Full text of H-statements referred to under sections 2 and 3:

- H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Product names are a trademark or registered trademark of a Syngenta Group Company.

IMPORTANT INFORMATION

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Crops	Maximum individual dose (litres/product/ha)	Maximum number of treatments	Latest time of application
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(a) Operator protection (COSHH applies to the UK only)

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection (LERAP applies to the UK only)

To protect aquatic organisms respect an unsprayed buffer zone distance to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m from the top of a ditch which is dry at the time of application. Aim spray away from water.

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Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

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 safely.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.



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97 x 134 mm