



HERBICIDE

TOPIK

PRODUCT USE

SUMMARY OF INFORMATION

FORMULATION & ACTIVE INGREDIENT: Emulsifiable concentrate containing 240 g/l (22.2% w/w) clodinafop-propargyl and 60 g/l (5.6% w/w) cloquintocet-mexyl.

MAFF NUMBER: 08461

PACK SIZE: 1 litre.

TARGETS: Controls black-grass, wild-oats and rough meadow-grass in wheat, durum wheat, rye and triticale.

WATER VOLUME AND BCPC SPRAY QUALITY: 100–200 litres of water per hectare as a FINE/MEDIUM spray.

PRACTICAL NOTES:

CROPS	MAXIMUM INDIVIDUAL DOSE (LITRES PRODUCT/HA)	MAXIMUM TOTAL DOSE OR MAXIMUM NUMBER OF APPLICATIONS (LITRES PRODUCT/HA/CROP)	HARVEST INTERVAL OR LATEST TIME OF APPLICATION
Wheat	0.25	0.25	Before flag leaf sheath extending stage (GS41)
Rye and triticale	0.25	0.25	Before second node detectable stage (GS32)

RAINFASTNESS: 1 hour.

BUFFER ZONE RESTRICTIONS: None.

FOR USE ONLY AS: AN AGRICULTURAL HERBICIDE.

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COMPATIBILITY

The following products have been tested for physical compatibility with TOPIK + adjuvant at recommended rates of use and will mix in the sprayer tank. No tests have been undertaken on crop safety or product performance. Use is at the user's own risk. Syngenta Crop Protection will support 2 and 3-way tank mixes of TOPIK + adjuvant with any of the fungicides, herbicides, PGR's or adjuvants listed. (Note: TOPIK + adjuvant is classed as one product). For further information on compatibilities contact Syngenta Crop Protection on 0800 169 6058.

FUNGICIDES

ACANTO	Eminent	Opponent
Alto 240EC	Ensign	Opus
ALTO ELITE	Epic	Opus Team
AMISTAR	Flamenco	Orka
AMISTAR OPTI	Foil	PRIORI XTRA
AMISTAR PRO	Folicur	RADIUS
Bavistin	Fortress	Sanction
Beam	Genie	Silvacur
BRAVO 500	Granit	Sportak 45HF
Caramba	Juggler	Sportak Delta HF
COGITO	Landmark	TERN
Comet	Lyric	THIOVIT JET
Corbel	Mantra	Torch
DUK51	MENARA	UNIX
DUK747	Neon	Veto F
Eclipse	Opera	

HERBICIDES

Ally	Calibre	Isoproturon
Alpha Briotril	Deloxil	Oxytril CM
Asset	Eagle	Panther
Atlantis	GRASP + OUTPUT	Quantum
Auger	Harmony M	Starane 2
Boxer	HAWK	Starane XL
Capture	HBN	

INSECTICIDES

HALLMARK with
ZEON TECHNOLOGY

PGRs

Adjust	MODDUS	Terpal
Chlormequat	MODDUS + chlormequat	Upgrade
Meteor	Stronghold	

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ADJUVANTS

Always apply TOPIK with a Syngenta approved adjuvant. Optimum results will be obtained from the use of mineral oils or methylated seed oils. Syngenta recommend methylated seed oils in preference.

GROUP	RATE	GROUP	RATE	
Methylated seed oils*	0.5% of water volume (minimum 0.5 l/ha*)	Mineral/vegetable oil	1% of water volume (minimum 1.0 l/ha)	
Abacus		Ashlade Adjuvant Oil		
Actirob		Comulin		
Amber		Contact		
Drill		Cropoil		
Eros		Sprayprover		
Fortune		Fyzol 11E		
Phase		SM99		
Toil		OUTPUT		0.375% of water volume
Others				
Biocyl				
Galion				
Biopower (only in mix with Atlantis)				

Using adjuvants not named in the above list is at users own risk.

*In 'resistant' situations, where black-grass is beyond the optimum 1–2 leaves, a minimum of 1.0 l/ha of methylated seed oils should be used.

TRACE ELEMENTS

Syngenta Crop Protection will support the tank mixing of any of the named trace elements with an existing 2 or 3-way tank mix including TOPIK. Syngenta Crop Protection advise that the trace element part of the tank mix is added to the sprayer tank last with constant agitation and the mixture is sprayed without delay.

Foliar Potash	Phosyn Magphos K	Stefes Regal Manganese N
Headland Carnival	Phosyn Mancozin	Verdi-crop Foliar Plus
Headland Jett	Phosyn Mantrac 500	Verdi-crop Hu-Man 15
Headland Liquid Cuman	Phosyn Mantrac DF	Verdi-crop Manganese
Headland Stag	Phosyn MN/CU 321	Copper DF
Headland Super 80	Phosyn Molytrac 250	Verdi-crop Manganese DF
Mensa	Phosyn Phosamco	Verdi-crop Manganese
Phosyn Bortrac	Phosyn Photrel	Magnesium DF
Phosyn Caliphos	Phosyn Stopit	Verdi-crop Manganese
Phosyn Croplift	Phosyn Sulphur F3000	Zinc DF
Phosyn Ferleaf	Phosyn Zinphos	Verdi-crop Phos Plus
Phosyn Hydromag 500	Stefes Manic	Verdi-crop 4 Yield
Phosyn Liq MN 15%	Stefes Regal Cereal Mix	Verdi-crop Foliar Plus

NOTES

Before using any tank mixture, consult and comply with the recommendations of the partner products. Each product should be added separately to the bulk of the water in the spray tank and thoroughly mixed before adding the next chemical. Always use constant agitation of the sprayer tank during mixing, transportation and application. Spray immediately.

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- When mixing with RADIUS or UNIX always add to the sprayer tank first.

Avoid the use of hormone containing herbicides in mixture or sequence with TOPIK.

TANK MIXING WITH HORMONE HERBICIDES

- DO NOT use hormone-containing herbicides in mixture with TOPIK.
- Hormone herbicides may be used in sequence with TOPIK, observing the following intervals:
 - When TOPIK is applied first, leave a minimum of 7 days before applying hormone herbicides.
 - If CMPP or 2,4-DB containing products are applied before TOPIK then leave a minimum of 14 days before TOPIK is applied.
 - If MCPA or 2,4-D containing products are applied before TOPIK leave a minimum of 21 days before applying TOPIK.

TANK MIXING WITH SULFONYL UREAS AND OTHER ALS INHIBITOR HERBICIDES

- Only sulfonyl-urea herbicides listed may be tank mixed with TOPIK.
- Sulfonyl-urea herbicides should only be tank mixed with TOPIK when TOPIK is used at the full dose rate (125 ml/ha + adjuvant).
- When targeting wild-oats using supported reduced rates of TOPIK, in sequence with sulfonyl-urea (or other ALS inhibitors such as florasulam), the following application intervals should be observed:
 - If TOPIK is applied prior to the product containing sulfonyl-urea or ALS inhibitors then at least 7 days must elapse before the sulfonyl-urea/ALS inhibitor product is applied.
 - If the product containing sulfonyl-urea/ALS inhibitor has been applied prior to the TOPIK, then a minimum of 14 days must elapse before the application of TOPIK.

Mixes of TOPIK with Lexus 50DF and Lexus Millennium or other non-listed sulfonyl-urea/ALS containing products in the spring may result in reduced control of wild-oats.

TOPIK is INCOMPATIBLE with Attribut, Monitor, Dagger and Twist and any product containing carfentrazone or cinidon ethyl.

When TOPIK is used in mixture with the following herbicides do not exceed the maximum rates stated for the partner product:

	IPU	CHLOROTOLURON	DIFLUFENICAN (DFF)
TOPIK (125 mls/ha)	1000 g/ha	1500 g/ha	62.5 g/ha

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.

RESTRICTIONS

Do not use on barley or oats.

Do not spray crops under stress or to crops suffering from waterlogging, pest attack, disease or frost.

Do not spray crops undersown with grass mixtures.

Rain within one hour after application may reduce grass weed control.

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Avoid the use of hormone-containing herbicides in mixture or sequence with TOPIK.

When TOPIK is applied first, leave 7 days before applying hormone herbicides. If mecoprop or 2,4-DB containing products are applied first leave 14 days before TOPIK is applied. If MCPA or 2,4-D containing products are applied first, leave 21 days before TOPIK is applied.

Strains of some annual grasses (e.g. black-grass, wild-oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

WEEDS CONTROLLED

TOPIK is a foliar acting grass-weed killer for the control of black-grass, wild-oats and rough meadow-grass which can be used post-emergence on all varieties of wheat, durum wheat, autumn-sown spring wheat, rye and triticale. TOPIK can be mixed with many broad-leaved weed and residual grass weed herbicides to widen the spectrum of weeds controlled.

CROP SPECIFIC INFORMATION**Weed control**

Activity is faster under good growing conditions and may appear relatively slow under cold or dry weather conditions.

TOPIK has no residual activity. Optimum weed control will only be achieved when all grass weeds have emerged.

TOPIK does not control broad-leaved weeds and if these are present a specific broad-leaved weed herbicide will be required.

TOPIK can be used on all varieties of winter and spring wheat, autumn-sown spring wheat, durum wheat, rye and triticale.

Timing

Spray in the autumn, winter or spring from one true leaf to before flag leaf sheath extending stage of the crop (wheat) or before second node detectable stage of the crop (rye and triticale). Spraying should be done when the majority of weeds have germinated but before weed competition reduces yield. Dry or cloddy seedbeds favour late germination of grass weeds and spraying should be delayed. A tank mix with a residual herbicide will control weeds germinating after autumn treatment.

Rates of Use

Apply TOPIK at 0.25 litres per hectare alone OR 0.125 litres per hectare when used in mixture with an additive (see Use of Additives section) or in certain mixtures (see Tank Mix Recommendations).

FOLLOWING CROPS

The activity of TOPIK is not affected by soil type, organic matter or straw residues. In the event of crop failure, any broad-leaved crop may be sown, or after an interval of 3 weeks, any cereal may be sown. Following normal harvest of a treated crop, any broad-leaved or cereal crop may be sown.

MIXING AND SPRAYING**Spray Volume**

Spray TOPIK in 100–200 litres of water per hectare. Where there are dense weed populations or advanced growth stages the water volume should be 200 litres per hectare.

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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 TOPIK 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 Quality

Apply TOPIK using a conventional fan nozzle producing a spray quality at the FINER end of the MEDIUM range as defined by the British Crop Protection Council. Do not use pre-orifice and air induction nozzles as these may give reduced control, which in high weed populations can prove unacceptable. A spray pressure of 2–3 bars is recommended.

COMPATIBILITY

USE OF ADDITIVES

The maximum dose rate of TOPIK is 0.125 litres per hectare when used in mixture with a suitable additive.

TOPIK +/- ADDITIVES – GRASS WEED SUSCEPTIBILITY

PRODUCT(S)	DOSES (L/HA)	WEED GROWTH STAGES CONTROLLED			
		BLACK-GRASS	WILD-OATS	ROUGH MEADOW-GRASS	ANNUAL RYEGRASS
TOPIK	0.25	1st leaf unfolded to flag leaf ligule visible	1st leaf unfolded to flag leaf ligule visible	1st leaf unfolded to main shoot and 3 tillers	Moderately susceptible 1st leaf unfolded to main shoot and 3 tillers
TOPIK + Additive	0.125*	1st leaf unfolded to flag leaf ligule visible	1st leaf unfolded to flag leaf ligule visible	1st leaf unfolded to main shoot and 3 tillers	Moderately susceptible 1st leaf unfolded to main shoot and 3 tillers

* For dose see text

TOPIK may be tank-mixed with a variety of plant protection products providing that the application timing is correct for both TOPIK and the partner(s) in the mixture.

SAFETY PRECAUTIONS

(a) Operator protection

- * Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
- * WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS, RUBBER APRON), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- * WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- * However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.
- * WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.

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WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES WITH CHEMICAL OR USED CONTAINER.

(c) Storage and disposal

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

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.

TOPIK



HARMFUL



**DANGEROUS
FOR THE
ENVIRONMENT**

Emulsifiable concentrate containing 240 g/l (22.2% w/w) clodinafop-propargyl and 60 g/l (5.6% w/w) cloquintocet-mexyl

IRRITATING TO EYES AND SKIN.

MAY CAUSE SENSITISATION BY SKIN CONTACT.

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

When using, do not eat, drink or smoke.

Wear suitable protective clothing and gloves.

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

Use appropriate containment to avoid environmental contamination.

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

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THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

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

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

For use on: winter and spring wheat, rye and triticale

Maximum Individual Dose: 0.25 litres product/hectare

Maximum Total Dose: 0.25 litres product/hectare/crop

Latest Timing: Wheat: Before flag leaf sheath extending stage (GS41)

Rye and triticale: Before second node detectable stage (GS32)

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS BEFORE USE.

HERBICIDE

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

Tradename **TOPIK**
 Design Code **A8588H**
 AGI Code **114444**

COMPANY IDENTIFICATION

Company Syngenta Crop Protection UK Ltd
 Whittlesford, CAMBRIDGE, CB2 4QT
 Phone (01223) 833621
 Fax (01223) 493700
 Website www.syngenta-crop.co.uk

Emergency Phone 0044 (0)1484 538444 (24h)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC

Formulation type Emulsifiable concentrate
 Use Herbicide

Active ingredient(s) 24% w/v clodinafop-propargyl (pa ISO) CGA184927

HAZARDOUS COMPONENTS

CAS-NO.	HAZARDOUS INGREDIENTS	CONCENTRATION (%W/W)	HAZARD SYMBOLS	RISK PHRASES
872-50-4	1-Methyl-2-pyrrolidone	5-10	Xi	36/38
26264-06-2	benzenesulphonic acid, dodecyl-, calcium salt in 2-Methylpropan-1-ol	1 – 5	Xi	10, 37/38, 41
105512-06-9	clodinafop-propargyl (pa ISO)	22.3	N, Xn	22, 43, 50/53
99607-70-2	cloquintocet-mexyl (pa ISO)	5.6	N, Xi	43, 50/53
68891-11-2	copolymer of nonylphenol 13 PO/20 PO	2 – 5	N	52/53
64742-94-5	mixture of aromatic hydrocarbons	40 – 55	Xn	51/53, 65, 66,

Information to exposure limit values see section 8.

3. HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

FIRST-AID MEASURES

General: Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

Eye Contact: Rinse eyes with clean water for several minutes and immediately call a physician.

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Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water, including hair and under fingernails.

MEDICAL INSTRUCTIONS

Antidote: No specific antidote is known! Apply symptomatic therapy.

5. FIRE FIGHTING MEASURES

Combustibility: This product is combustible at elevated temperatures.

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Hazardous Combustion Products: carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride & hydrogen fluoride.

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.

7. HANDLING AND STORAGE

General Handling information: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Special Instructions for Storage: Store the product in closed original containers. Protect from light and humidity.

Storage Compatibility with other Products: Store separate from food and feed.

Maximum Storage Temperature: 35 °C

Minimum Storage Temperature: -10 °C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits HSE EH40/2002:

1-Methyl-2-pyrrolidone: LTEL (8h TWA) 25 ppm, 103 mg/m³; STEL (15 min) 75 ppm, 309 mg/m³
Sk

2-Methylpropanol-1-ol: LTEL (8h TWA) 50 ppm, 154 mg/m³; STEL (15 min) 75 ppm, 231 mg/m³

Internal exposure limit: SIEL (Syngenta internal exposure level):

clodinafop-propargyl (pa ISO): 1 mg/m³

PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask.

Eye Protection: Goggles or face-shield.

Hand Protection: Chemical-resistant gloves.

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	light brown to brown	
Physical State/Form:	clear to slightly turbid liquid	
Flash-Point:	75 °C (1013 hPa; DIN 51758)	
Density:	1.075 g/cm ³	OECD 109
Miscibility with water:	miscible	

10. STABILITY AND REACTIVITY

Chemical Stability Assessment: stable under standard conditions.

Sensitivity: not sensitive to humidity, heat, air or light.

Corrosiveness / Appropriate Material: aluminium, steel normal.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ : 2276 mg/kg (rat)	
Acute Dermal Toxicity	LD ₅₀ : > 4000 mg/kg (rat)	
Acute Inhalation Toxicity	LC ₅₀ : > 3500 mg/m ³ (rat; 4 h)	OECD 403
Acute Skin Irritation:	irritant (rabbit)	OECD 404
Acute Eye Irritation:	irritant (rabbit)	OECD 405
Skin Sensitisation:	sensitising (guinea pig)	OECD 406

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12. ECOLOGICAL INFORMATION

Acute Toxicity to Fish	LC ₅₀ : 4.9 mg/l (<i>Salmo trutta</i> (trout); 96 h) LC ₅₀ : 6.3 mg/l (<i>Cyprinus carpio</i> (Common carp); 96 h)	OECD 203
Growth Inhibition, Algae	EbC ₅₀ : 5.3 mg/l (<i>Scenedesmus subspicatus</i> (green algae); 0 - 96 h)	OECD 201
Toxicity to Aquatic Invertebrates	EC ₅₀ : 5.9 mg/l (<i>Daphnia magna</i> (water flea); 48 h)	OECD 202
Toxicity to Soil Dwelling Organisms	LC ₅₀ : 85 mg/kg (<i>Eisenia foetida</i> (earthworm); 14 day(s))	OECD 207

13. DISPOSAL CONSIDERATIONS

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container Disposal: Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. TRANSPORT INFORMATION

Special Information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

RAIL / ROAD (RID / ADR)	Class	UN number	Packaging group	Kemmler Index
	9	3082	III	90
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,			
Additional Information	(SOLVENT NAPHTHA AND CLODINAFOP-PROPARGYL 24%)			
SEA (IMDG-CODE)	Class	UN number	Packaging group	EMS MFAG
	9	3082	III	NONE NONE
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,			
Additional Information	(SOLVENT NAPHTHA AND CLODINAFOP-PROPARGYL 24%, MARINE POLLUTANT)			
Marine pollutant	yes			
AIR (ICAO / IATA)	Class	UN number	Packaging group	
	9	3082	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,			
Additional Information	(CLODINAFOP-PROPARGYL AND CLOQUINTOCET-MEXYL)			

15. REGULATORY INFORMATION

Classifications/	N	DANGEROUS FOR THE ENVIRONMENT
Hazard symbols	Xi	IRRITANT
Risk phrases (R)	36/38	Irritating to eyes and skin.
	43	May cause sensitisation by skin contact.
	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases (S)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	35	This material and its container must be disposed of in a safe way.
	36/37	Wear suitable protective clothing and gloves.
	57	Use appropriate containment to avoid environmental contamination.
Special label		To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Significant revisions have been made to sections 2, 3, 9, 14 & 15. Based on original SDS dated 24/01/2003. New product formulation code.

Always read the label. Use pesticides safely.

Product Approval number: MAFF number 08461.

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

HERBICIDE

An emulsifiable concentrate formulation containing 240 g/l clodinafop-propargyl (and 60 g/l cloquintocet-mexyl as a safener), for the control of black-grass, wild-oats and rough meadow-grass in wheat, durum wheat, rye and triticale.

Maximum individual dose: 0.25 litres product/ha.

Maximum total dose: 0.25 litres product/ha.

SECTION	PROFILE
1. WILDLIFE MAMMALS AND BIRDS	TOPIK is not classified as 'Harmful to game and wildlife'. No risk management is necessary to protect mammals and birds. TOPIK is of low toxicity to mammals and birds. It will therefore pose a low risk to grazing mammals e.g. rabbits, hares and deer that may consume recently treated cereal shoots or other mammals living in and around treated fields. The risk to mammals such as shrews consuming earthworms in fields treated with TOPIK is low.
2. BEES	No risk management is necessary. TOPIK poses a low risk to honey bees and there is no requirement to avoid application of the product when bees may be foraging on flowering weeds in and around treated areas.
3. NON TARGET INSECTS AND OTHER ARTHROPODS	No risk management necessary. TOPIK poses a low risk to a range of arthropod species commonly found in and around treated fields, including ground and rove beetles and aphid predators such as ladybirds.
4. AQUATIC LIFE	TOPIK is classified as 'Dangerous to fish and other aquatic life'. TOPIK is highly toxic to fish and aquatic plants. However, in practice the risk to aquatic life is low if used as recommended. Care should be taken to ensure that surface waters or ditches are not contaminated with the used container. No risk management necessary. Not categorised under the LERAP scheme.
5. SOIL AND GROUNDWATER EARTHWORMS SOIL MICRO- ORGANISMS	TOPIK is rapidly degraded in soil. It has moderate persistence and is highly mobile in some situations. However, there is a low risk of groundwater contamination if the product is used according to label conditions. TOPIK is of low toxicity to earthworms and so will pose a low risk to earthworm populations in and around treated fields. No risk management necessary. TOPIK has no significant effect to soil microbial populations or to the processes of respiration and degradation. No risk management necessary.
6. NON-TARGET PLANTS	No effects on non-target plants are expected when TOPIK is used as directed. As TOPIK is used to control grass weeds, care should always be taken to minimise drift when applying close to field boundaries.

ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:

Company: Syngenta Crop Protection UK Ltd, Whittlesford, Cambridge, CB2 4QT

Telephone: 01223 833621 Fax: 01223 493700 e-mail: customer.services@syngenta.com

This Environmental Information Sheet was prepared in accordance with CPA Guidance Notes Version 3.

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