

syngenta.

GROUP HERBICIDE

Product registration number: MAPP 19573

Herbicide for the control of annual grass and broad-leaved weeds in maize.

An oil dispersion formulation containing 40 g/L (4.2% w/w) nicosulfuron

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

Authorisation Holder	Marketing Company	
ISK Biosciences Europe N.V.	Syngenta UK Limited	
Pegasus Park	CPC4 Capital Park	
De Kletlaan 12B	Fulbourn	
Box 9	Cambridge	
B-1831 Diegem	CB21 5XE	
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In case of toxic or transport emergency ring +44 (0)1484 538444 any time

PROTECT FROM FROST SHAKE WELL BEFORE USE

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









Milagro® 40 OD

contains 40 g/L (4.2% w/w) nicosulfuron

Warning

Causes skin irritation

Very toxic to aquatic life with long lasting effects.

Wash hands thoroughly after handling

Avoid release to the enironment

Wear protective gloves

IF ON SKIN: wash with plenty of soap and water

Specific treatment (see information on this label)

IF SKIN IRRITATION OCCURS: get medical advice/attention

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.

Safety data sheet available on request.

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



MAPP 19573

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERRICIDE

Crop	Maximum individual dose (L product/ha)	Maximum number of treatments: (per crop)	Latest time of application
Forage maize	1.0	1	Up to and including 8 true leaf stage

Other specific restrictions:

- This product qualifies for inclusion within the Local Environment 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 the 'Local Environment Risk Assessment for Pesticides Horizontal
 Boom Sprayers' booklet available from the HSE Chemicals Regulation Division website or statutory buffer zone must be maintained. The results of the
 LERAP must be recorded and kept available for three years.
- To avoid the build up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds
 more than once to any crop.

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.

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: Operators must WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) and SUITABLE PROTECTIVE GLOVES when handling the concentrate. Operators must 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 ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

AVOID ALL CONTACT WITH SKIN.

WASH HANDS AND EXPOSED SKIN before meals and after work

(b) Environmental protection

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

DO NOT ALLOW DIRECT SPRAY from horizonal 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 of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of a bank of a static or flowing water body. Aim spray away from water.



This product qualifies for inclusion within the Local Environmental Risk Assessment for Pestidicides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in acordance with CRD's published guidance or the statutory buffer zone must be observed. The results of 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.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

(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.

UFI: A71M-GSN8-W204-KG81 L1093412 GBRI/09A 7-3205-200-035-14/23

Respiratory or skin sensitisation 10.4 Conditions to avoid Conditions to avoid: No decomposition if used as directed. Species: Guinea pig 10.5 Incompatible materials Result: Not a skin sensitizer. Materials to avoid: None known. Components: 10.6 Hazardous decomposition products nicosulfuron: Hazardous decomposition: No hazardous decomposition products are Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Germ cell mutagenicity 11. TOXICOLOGICAL INFORMATION Components: 11.1 Information on toxicological effects nicosulfuron: Information on likely routes of exposure; Ingestion. Inhalation. Germ cell mutagenicity - Assessment: Animal testing did not show any Skin contact, Eye contact mutagenic effects. Acute toxicity Carcinogenicit Acute oral toxicity: LD50 (Rat): > 5,000 mg/kgComponents: LC50 (Rat): > 1.18 mg/l Acute inhalation toxicity: nicosulfuron: Exposure time: 4 h Carcinogenicity - Assessment: No evidence of carcinogenicity in animal Test atmosphere: dust/mist studies. Assessment: The substance or mixture has no acute inhalation toxicity Reproductive toxicity LD50 (Rat): > 2.000 mg/kg Acute dermal toxicity: Components: Assessment: The substance or mixture nicosulfuron: has no acute dermal toxicity Components Reproductive toxicity - Assessment: No toxicity to reproduction nicosulfuron: Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg Acute inhalation toxicity: LC50 (Rat): > 5.47 mg/l12. FCOLOGICAL INFORMATION Exposure time: 4 h 12.1 Toxicity Test atmosphere: dust/mist Assessment: The substance or mixture Toxicity to fish: has no acute inhalation toxicity LC50 (Oncorhynchus mykiss (rainbow trout)): 55.6 - 100 mg/l Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kgExposure time: 96 h Assessment: The substance or mixture Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 82.3 mg/l has no acute dermal toxicity Exposure time: 48 h Skin corrosion/irritation Toxicity to algae/aguatic plants: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Result: Irritating to skin. Exposure time: 72 h ErC50 (Lemna gibba (gibbous duckweed)): 0.0042 mg/l nicosulfuron: Exposure time: 7 d Result: No skin irritation butanedioic acid. 2-sulfo-, 1.4-bis(2-ethylhexyl) ester, calcium salt (2:1): nicosulfuron: Result: Irritating to skin. Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 65.7 mg/l Serious eve damage/eve irritation Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates: Species: Rabbit EC50 (Daphnia magna (Water flea)): 90 mg/l Result: No eye irritation Exposure time: 48 h

Components

nicosulfuron:

Result: No eve irritation

Result: Risk of serious damage to eyes.

Result: Eve irritation

butanedioic acid, 2-sulfo-, 1,4-bis(2-ethylhexyl) ester, calcium salt (2:1):

quaternary ammonium compounds, di-C16-18-alkyldimethyl, chlorides:

10. STABILITY AND REACTIVITY

None reasonably foreseeable.

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of

10.2 Chemical stability

10.1 Reactivity

Species: Oncorhynchus mykiss (rainbow trout) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 5.2 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) M-Factor (Chronic aquatic toxicity): 100 Ecotoxicology Assessment Acute aquatic toxicity: Very toxic to aquatic life. Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects. quaternary ammonium compounds, di-C16-18-alkyldimethyl, chlorides: M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 Ecotoxicology Assessment Acute aquatic toxicity: Very toxic to aquatic life. Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects. 12.2 Persistence and degradability Components: nicosulfuron: Biodegradability: Result: Not readily biodegradable 12.3 Bioaccumulative potential

Toxicity to algae/aguatic plants:

M-Factor (Acute aquatic toxicity): 100

Exposure time: 7 d

Exposure time: 28 d

ErC50 (Lemna gibba (gibbous duckweed)): 0.0017 mg/l

Toxicity to fish (Chronic toxicity): NOEC: 10 mg/l

Components: nicosulfuron: Bioaccumulation: Remarks: Low bioaccumulation potential. Partition coefficient: n- octanol/water: log Pow: 0.61 12.4 Mobility in soil

bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

nicosulfuron:

No data available

very bioaccumulating (vPvB).

12.6 Other adverse effects

Components: nicosulfuron: Distribution among environmental compartments: Remarks: Very high mobile in soils Stability in soil: Dissipation time: 16.4 h Percentage dissipation: 50 % (DT50) 12.5 Results of PBT and vPvB assessment Assessment:

150110, packaging containing residues of or contaminated by dangerous 14. TRANSPORT INFORMATION 14.1 UN number ADN: UN 3082 ADR: 11N 3082 RID: 11N 3082 IMDG: UN 3082 IATA: UN 3082 14.2 UN proper shipping name ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICOSULFURON) ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICOSULFURON) RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICOSUL FURON) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICOSUI FURON) IATA: Environmentally hazardous substance, liquid, n.o.s (NICOSULFURON) 14.3 Transport hazard class(es ADR: RID: IMDG: 9 IATA: 9 14.4 Packing group This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 This substance is not considered to be persistent, bioaccumulating and Packing group: III toxic (PBT). This substance is not considered to be very persistent and

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contaminated packaging:

Waste Code:

uncleaned packagings

Classification Code: M6

Tunnel restriction code: (-

Labels: 9

Hazard Identification Number: 90

dispose of in compliance with local regulations.

disposal. Do not re-use empty containers.

Do not contaminate ponds, waterways or ditches with chemical or used

is preferred to disposal or incineration. If recycling is not practicable.

Empty remaining contents, Triple rinse containers, Empty containers

should be taken to an approved waste handling site for recycling or

container. Do not dispose of waste into sewer. Where possible recycling

DID	F. II 4 4 . 4 . 4	
RID	Full text of other abb	
Packing group: III	Aquatic Acute:	Acute aquatic toxicity
Classification Code: M6	Aquatic Chronic:	Chronic aquatic toxicity
Hazard Identification Number: 90	Eye Dam.:	Serious eye damage
Labels: 9	Eye Irrit.:	Eye irritation
IMDG	Skin Irrit.:	Skin irritation
Packing group: III	ADM Europeen Agree	ment concerning the International Corriage of
Labels: 9		ment concerning the International Carriage of
EmS Code: F-A, S-F		nland Waterways; ADR - European Agreement
IATA (Cargo)		tional Carriage of Dangerous Goods by Road; AICS
Packing instruction (cargo aircraft): 964		of Chemical Substances; ASTM - American Society
Packing instruction (LQ): Y964		erials; bw - Body weight; CLP - Classification
Packing group: III		egulation; Regulation (EC) No 1272/2008; CMR -
Labels: Flammable Miscellaneous		or Reproductive Toxicant; DIN - Standard of the
IATA (Passenger)		tandardisation; DSL - Domestic Substances List
Packing instruction (passenger aircraft): 964		pean Chemicals Agency; EC-Number - European
Packing instruction (LQ): Y964		Cx - Concentration associated with x% response;
Packing group: III		ociated with x% response; EmS - Emergency
Labels: Flammable Miscellaneous		ting and New Chemical Substances (Japan);
Labels. Hammable Miscellaneous		ssociated with x% growth rate response; GHS
14.5 Environmental hazards		System; GLP - Good Laboratory Practice; IARC
ADN		for Research on Cancer; IATA - International Air
Environmentally hazardous: yes		IBC - International Code for the Construction and
ADR		rrying Dangerous Chemicals in Bulk; IC50 - Half
Environmentally hazardous: yes		centration; ICAO - International Civil Aviation
RID		Inventory of Existing Chemical Substances in China
Environmentally hazardous: yes		laritime Dangerous Goods; IMO - International
IMDG		ISHL - Industrial Safety and Health Law (Japan);
		anisation for Standardization; KECI - Korea Existing
Marine pollutant: yes	Chemicals Inventory; L	.C50 - Lethal Concentration to 50 % of a test popu-
14.6 Special precautions for user	lation; LD50 - Lethal D	lose to 50% of a test population (Median Lethal
The transport classification(s) provided herein are for informational purposes	Dose); MARPOL - Inter	national Convention for the Prevention of Pollution
only, and solely based upon the properties of the unpackaged material as it	from Ships; n.o.s No	ot Otherwise Specified; NO(A)EC - No Observed
is described within this Safety Data Sheet. Transportation classifications may	(Adverse) Effect Conce	ntration; NO(A)EL - No Observed (Adverse) Effect
	Level; NOELR - No Obs	servable Effect Loading Rate; NZIoC - New Zealand
vary by mode of transportation, package sizes, and variations in regional or	Inventory of Chemicals	s; OECD - Organization for Economic Co-operation
country regulations.	and Development; OPF	PTS - Office of Chemical Safety and Pollution
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Prevention; PBT - Pers	istent, Bioaccumulative and Toxic substance;
Not applicable for product as supplied.	PICCS - Philippines Inv	ventory of Chemicals and Chemical Substances; (Q)
,	SAR - (Quantitative) St	ructure Activity Relationship; REACH - Regulation
		the European Parliament and of the Council
15. REGULATORY INFORMATION		ration, Evaluation, Authorisation and Restriction
15.1 Safety, health and environmental regulation/legislation specific		equiations concerning the International Carriage
for the substance or mixture		y Rail; SADT - Self-Accelerating Decomposition
IOI LIIG SUNSLAIIGE OI IIIIXLUITE		afety Data Sheet: TCSI - Taiwan Chemical

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

15.2 Chemical Safety Assessment

16. OTHER INFORMATION

H315

Full text of H-statements of our knowledge, information and belief at the date of its publication. Causes skin irritation The information given is designed only as a guidance for safe handling. Very toxic to aquatic life. 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

Substance Inventory: TRGS - Technical Rule for Hazardous Substances

vPvB - Very Persistent and Very Bioaccumulative

process, unless specified in the text.

TSCA - Toxic Substances Control Act (United States): UN - United Nations

The information provided in this Safety Data Sheet is correct to the best

such material used in combination with any other materials or in any

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AICS Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials: bw - Body weight: CLP - Classification abelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the erman Institute for Standardisation: DSL - Domestic Substances List Canada): ECHA - European Chemicals Agency: EC-Number - European Community number: ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency chedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; GHS Globally Harmonized System; GLP - Good Laboratory Practice; IARC International Agency for Research on Cancer: IATA - International Air ransport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: MDG - International Maritime Dangerous Goods; IMO - International faritime Organization: ISHL - Industrial Safety and Health Law (Japan) ISO - International Organisation for Standardization: KECI - Korea Existing hemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popuation: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution rom Ships: n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect evel: NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand

SAFFTY PRECAUTIONS (a) Operator protection

Milagro® 40 OD

Causes skin irritation

Wear protective gloves

IMPORTANT INFORMATION

Other specific restrictions

Forage maize

contains 40 g/L (4.2% w/w) nicosulfuron

Wash hands thoroughly after handling

Safety data sheet available on request.

FOR USE ONLY AS AN AGRICULTURAL HERBICID

Avoid release to the enironment

Very toxic to aquatic life with long lasting effects.

IF ON SKIN: wash with plenty of soap and water

Specific treatment (see information on this label)

IF SKIN IRRITATION OCCURS: get medical advice/attention

Dispose of contents/container to a licensed hazardous-waste disposal contractor or

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

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

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

LERAP must be recorded and kept available for three years.

CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Operators must WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) and SUITABLE PROTECTIVE GLOVES when handling the concentrate.

Operators must 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 ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves. AVOID ALL CONTACT WITH SKIN.

WASH HANDS AND EXPOSED SKIN before meals and after work.

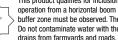
more than once to any crop.

(b) Environmental protection

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

DO NOT ALLOW DIRECT SPRAY from horizonal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Envi-

ronmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of a bank of a static or flowing water body. Aim spray away from water. This product qualifies for inclusion within the Local Environmental Risk Assessment for Pestidicides (LERAP) scheme. Before each spraying



operation from a horizontal boom sprayer, either a LERAP must be carried out in acordance with CRD's published guidance or the statutory buffer zone must be observed. The results of 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

Maximum individual dose (L product/ha) | Maximum number of treatments: (per crop) | Latest time of application

This product qualifies for inclusion within the Local Environment 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 the 'Local Environment Risk Assessment for Pesticides Horizontal

Boom Sprayers' booklet available from the HSE Chemicals Regulation Division website or statutory buffer zone must be maintained. The results of the

To avoid the build up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

(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.

UFI: A71M-GSN8-W204-KG81 L1093412 GBRI/09A 7-3205-200-035-14/23

MAPP 19573

Up to and including 8 true leaf stage

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 read carefully in order to obtain safe and successful use of this product.

- . Do not treat with MILAGRO 40 OD once a soil insecticide based on an organophosphate has been applied.
- Do not mix with foliar or liquid fertilisers.
- MILAGRO 40 OD can be used post-emergence at the recommended rate to directly target specific weed species. Choose the correct dose for the weeds present. As part of a weed resistance management plan MILAGRO 40 OD must be used in sequence with herbicides with other modes of action that are active against the same weeds, particularly in continuous maize.
- How to best use this product, your local technical representative should be contacted.
- Under certain conditions, some transient yellowing and/or crop stunting and/or loss of vigour can be seen from 1 to 2 weeks after treatment (2 8 leaves of maize). This is quickly outgrown and no yield effect has been shown
- Some flower deformation may be seen on particularly sensitive varieties e.g. Rival.
- Applications should not be made to maize crops that are under stress, as this may lead to incidences of more persistant crop damage, such as loss of vigour, particularly when poorer growing conditions follow treatment. This may cause loss of yield. Take care to ensure that products are evenly applied at the recommended dose to a healthy crop.
- Due to its high level of activity, care must be taken to avoid damage by spray drift onto plants outside the target area.

WEEDS CONTROLLED

Control of Annual Grassos

MILAGRO 40 OD can be used to control the following weeds in maize.

Control of Affiliati Grasses				
Common Name	Latin Name	Dose rate (L/ha)	Level of Efficacy	
Annual meadow grass	Poa annua	1.0	Susceptible*	
Ryegrass	Lolium spp.	1.0	Susceptible	

* Only susceptible at the two leaf stage of the weed.

When MILAGRO 40 OD is applied for control of other weeds some activity against black-grass and wild-oats can be seen

Control of Broad-leaved Weeds

Common Name	Latin Name	Dose rate (L/ha)	Level of Efficacy	
Common amaranth*	Amaranthus retroflexus	1.0	Susceptible	
Shepherd's purse	Capsella bursa-pastoris	1.0	Susceptible	
Groundsel	Senecio vulgaris	1.0	Susceptible	

This product contains nicosulfuron which is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group B'.

1* These weeds are minor and only limited evidence supports their control in the UK. For susceptible weeds, the effectiveness is generally 80 – 100%.

Use only 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 grass-weed control.

Avoid the use of MILAGRO 40 OD, or any other ALS inhibitor herbicide, as a sole means of grass and broad-leaved weed control in successive crops. Strains of some annual weeds (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 AHDB, CPA, your distributor, crop advisor or product manufacturer.

CROP SPECIFIC INFORMATION

Timing and Rates of Use

Control of Annual Grasses

Use: Apply 1.0 L/ha in 200 L/ha of water at 2-8 leaf stage of the crop, 2 leaves to early tillering of the weed.

Control of Broad-leaved Weeds

Use: Apply at 1.0 L/ha in 200 L/ha water at 2-8 leaf stage of the crop, 2 to 6 leaves of the weeds (In order to give maximum control the weeds must be growing well and not under any form of stress).

FOLLOWING CROPS

In normal crop rotation, after ploughing, winter wheat, winter barley, winter rye and triticale can be sown. All other crops can be sown in the following spring. In case of plant-back situation (crop failure), maize and soybeans can be sown after ploughing.

MIXING AND SPRAYING

Preparation of the spray solution

Shake thoroughly the MILAGRO 40 OD container. Half fill the spray tank with clean water and begin agitation, Add the required quantity of MILAGRO 40 OD to the tank and complete filling. Continue agitation until spraying is completed.

MILAGRO 40 OD must be applied using equipment which gives a good coverage of weeds (we recommend a spray quality MEDIUM as defined by BCPC and corresponding to a mean droplet size of 225 microns).

Do not spray MILAGRO 40 OD if any rainfall is expected in the next 6 hours.

MILAGRO 40 OD contains a sulfonylurea herbicide and it must not be applied in mixture or sequence with other sulfonylurea herbicides.

Tank cleaning procedure

Clean applicator thoroughly after using the following method:

- (a) Drain tank completely then flush tank, boom and hoses with clean water. Drain again.
- (b) Half fill the tank with clean water and add an ammonia based solution (All Clear Extra 1L/200L water), Flush through boom and hoses, then allow to stand for 10 minutes with agitation. Drain completely.
- (c) To remove traces of detergent, rinse the tank with clean water and flush through booms and hoses.
- (d) Repeat step (b)
- (e) Nozzles and filters must be removed and cleaned separately with the detergent solution at the same concentration as above.
- (f) Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

SOIL CONDITIONS

MILAGRO 40 OD can be used on all soils (light, medium and heavy soils) and is unaffected by high organic matter.

STORAGE

Store the container at room or cool temperatures.

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.

SAFFTY DATA SHFFT - V

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

1.1 Product Identifier

Trade Name: MII AGRO 40 OD

Design Code: A9267C

Product Regsistration number: MAPP 19573

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

Use of the Substance/Mixture: Herbicide

1.3 Details of the supplier of the safety data sheet Company Syngenta UK Limited

CPC4, Capital Park

Fulbourn, Cambridge CB21 5XE

United Kinadom

+44 (0) 1223 883400 +44 (0) 1223 882195

E-mail address of person responsible for the SDS: customer.services@syngenta.com

1.4 Emergency telephone number

Emergency phone No.: +44 1484 538444

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008

Skin irritation, Category 2 - H315; Causes skin irritation.

P391

Short-term (acute) aquatic hazard, Category 1 - H400; Very toxic to aquatic life.

Long-term (chronic) aguatic hazard, Category 1 - H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms

Labelling (REGULATION (EC) No 1272/2008)

Causes skin irritation.

Signal Word: Warning Hazard Statements H315 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements: EUH401 To avoid risks to human health and the environment comply with the instructions for use. Precautionary Statements Safety Data Sheet available on request.

> Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment

P273 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it 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.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS 3.2 Mixtures

Components Chemical Name

	EC-No. Index-No. Registration number			authorities. 6.3 Methods and materials for c
nicosulfuron	111991-09-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	>= 2.5 - < 10	Methods for cleaning up: Contain combustible absorbent material, (e vermiculite) and place in container national regulations (see section 1
butanedioic acid, 2-sulfo-, 1,4- bis(2-ethylhexyl) ester, calcium salt (2:1)	128-49-4 204-889-8 01-2120777069-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10	oughly. Clean with detergents. Ava contaminated wash water. 6.4 Reference to other sections
quaternary ammonium compounds, di- C16-18-alkyldimethyl, chlorides	92129-33-4 295-835-2	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1;H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 0.25 - < 1	For disposal considerations see se listed in sections 7 and 8. 7. HANDLING AND STORAGE 7.1 Precautions for safe handling
For explanation of abbreviations see section 16.				Advice on safe handling: No specia

Classification

4. FIRST-AID MEASURES

4.1 Description of first aid measures General advice: Have the product container, label or Safety Data Sheet

with you when calling the emergency number, a poison control center or physician, or going for treatment.

CAS-No.

If inhaled: 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

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

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

If swallowed: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

4.2 Most Important symptoms and effects, both acute and delayed Symptoms: Nonspecific. No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treat-

Treatment: There is no specific antidote available. Treat symptomatically,

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media:

Extinguishing media - small fires Extinguishing media - large fires

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

Alcohol-resistant foam

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: 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.

Concentration (% w/w)

5.3 Advice for fire-fighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus. Further information: Do not allow run-off from fire fighting to enter

drains or water courses. Cool closed containers exposed to fire with

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency Hand protection

Personal precautions: Refer to protective measures listed in sections 7 Material: Nitrile rubber

6.2 Environmental precautions: Environmental precautions: Prevent further leakage or spillage if safe

to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective

3 Methods and materials for containment and cleaning up ethods for cleaning up: Contain spillage, and then collect with non-

ombustible absorbent material, (e.g. sand, earth, diatomaceous earth, ermiculite) and place in container for disposal according to local / ational regulations (see section 13). Clean contaminated surface thorughly, Clean with detergents, Avoid solvents, Retain and dispose of ontaminated wash water.

or disposal considerations see section 13., Refer to protective measures

sted in sections 7 and 8. Wear as appropriate: Impervious clothing

HANDLING AND STORAGE 1 Precautions for safe handling

dvice on 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

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and wellventilated place. Keep out of the reach of children. Keep away from food. drink and animal feedingstuffs.

7.3 Specific end uses

Specific use(s): For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION 8.1 Control parameters

Occupational Exposure Limits

		(Form of exposure)	parameters		Partition n-octano
nicosulfuron	111991-09-4		5 mg/m ³ (Respirable dust)	Supplier	Auto-ign Decomp

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. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice

Eve protection: No special protective equipment required.

Personal protective equipment

Break through time: > 480 min

Glove thickness: 0.5 mm

Remarks: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Remove and wash contaminated clothing before re-use.

Respiratory protection: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties viscous, liquid beige opaque

No data available 4 54 - Concentration: 1 % w/v Melting point/range: No data available

No data available

No data available

0.96 a/cm3 (20 °C)

No data available

No data available

137 - 306 mPa.s (20 °C

410 °C

Boiling point/boiling range: No data available Flash point: > 93 °C Evaporation rate: No data available

Vapour pressure: Density:

Flammability (solid, gas)

Solubility(ies) Solubility in other solvent No data available n coefficient

nol/water: nition temperature position temperatur Viscosity, dynamic:

61 - 119 mPa.s (40 °C) Explosive properties: Not explosive Oxidizing properties: The substance or mixture is not

classified as oxidizing. 9.2 Other Information

No data available