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PRIMO Maxx II®

IMPORTANT INFORMATION

FOR USE ONLY AS AN HORTICULTURAL PLANT GROWTH REGULATOR

For use on: Maximum individual dose: Maximum total dose per year: 16 litres product/hectare/year.

Managed amenity turf and amenity grassland. 3.2 litres product/hectare.

Other Specific Restrictions:

A minimum interval of 7 days must be observed between applications. No more than 28 applications must be carried out on managed amenity turf and amenity grassland per year.

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 (references to COSHH apply to the UK use only)

(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 GLOVES when handling the concentrate or handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection. WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Consumer protection

NOT TO BE USED ON FOOD CROPS

(c) Environmental Protection

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from hard surfaces and roads).

(d) 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.

L1043176 GBRI/06W PPE 4096067 1178/2018

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

CREATE A 4, 8, 12 OR 16 PAGE BOOKLET

PRIMO Maxx II® may cause temporary yellowing of turf. This usually disappears about one week after application. To minimize yellowing and enhance the green colour of turf, apply readily available nitrogen.

In the absence of adequate nutrition the reduction in grass growth produced by PRIMO MAXX II may be favourable to the development of red thread disease.

Grass species

Some darkening of the turf may occur following application of PRIMO MAXX II.

As some discolouration including lightening or scorch may occur to Annual Meadow Grass, care should be taken if Annual Meadow Grass represents a significant composition of the sward.

Stressed Turf

Turf which is stressed, for example through drought, low fertility or pest/disease attack may show signs of damage after application of PRIMO MAXX II. Any signs of damage are only temporary..

DIRECTIONS FOR USE

PRIMO MAXX II for turf growth management reduces the frequency of mowing and the amount of grass clippings by reducing the growth of turfgrasses.

PRIMO MAXX II can be used on well maintained quality sports turf including golf course greens, green surrounds, tees and fairways. Application of PRIMO MAXX II is also permitted on bowling greens and tennis courts as well as winter sports pitches, cricket outfields and polo fields. The use of PRIMO MAXX II is extended to cemeteries, parks and similar areas down to turf. PRIMO MAXX II can only be applied to home and ornamental lawns by a professionally qualified operator. Management of difficult to mow areas, such as sloping ground, and to minimise the need for edging turf along pavements and flower beds are other areas of use for PRIMO MAXX II.

PRIMO MAXX II reaches the growing point through the foliage and it is not washed off by rainfall or irrigation 1 hour after application. Watering-in is not required. For best results PRIMO MAXX II should be applied to high quality turfgrass which receives adequate fertilization and water and is therefore not stressed.

Environmental conditions, management and cultural practices that affect turf growth and vigour (e.g. fertility level, moisture availability, plant height and frequency of mowing, etc.) will influence the response of the turf to PRIMO MAXX II applications.

CROP SPECIFIC INFORMATION

How PRIMO MAXX II works

The active ingredient in PRIMO MAXX II, trinexapac-ethyl, causes a temporary halt to the production of gibberellic acid, a plant growth hormone which is responsible for the top growth of the plant. Trinexapac-ethyl is taken up by the foliage of the grass plant and is translocated systemically to the growing point of the plant. After application the turf grass grows more slowly than in untreated areas, with shorter leaf blades.

PRIMO MAXX II does not control dicotyledonous weeds in turf and these should be controlled as part of a normal turf maintainance programme.

Turf grasses absorb trinexapac-ethyl very rapidly and it is rainfast 1 hour after application. Do not apply to bare ground since PRIMO MAXX II is absorbed through the foliage.

At the recommended rate, on turf cut at 12 mm or more, one application will give a reduction in fresh weight of grass clippings of up to 50% and a reduction in grass height of up to 20% for up to four weeks. Responses on the function of the production of the local section of the local section.

fine turf (quite up to 6mm) will be lessed is permanently affixed to the Bottle,

REPEAT LEGAL REQUIREMENTS IF NECESSARY (eg. FRONT PAGE)

Timing

Apply PRIMO MAXX II to actively growing turf. If turf is going into dormancy because of high or low temperatures or lack of moisture, apply a lower rate of PRIMO MAXX II. Do not treat turf under stress from lack of soil moisture, as damage may occur. E A 4. 8. 12 OR 16 PAGE BOOKLET

The turf must be dry before application. Adequate soil moisture is essential for PRIMO MAXX II to be effective and avoid damage to the turf.

Do not apply during periods of frost or when rain is expected within 1 hour.

Over-Seeding

When using PRIMO MAXX II as part of an over-seeding programme the product should be applied 3-5 days prior to sowing. Subsequent applications of PRIMO MAXX II after over-seeding should not begin until 80-90% grass cover is restored.

Re-Seeding

When using PRIMO MAXX II as part of a re-seeding programme applications can begin at 80-90% ground cover.

General Maintenance

Areas treated should continue to receive regular good maintenance practices including irrigation, fertilization, weed, disease and insect control when necessary and as recommended for quality turf.

Rates of use

Apply PRIMO MAXX II in sufficient water (300 – 1000 litres water per hectare) to provide a uniform and thorough coverage of the turfgrass foliage, using a MEDIUM spray quality (as defined in the BCPC classification scheme).

No significant effect of PRIMO MAXX II is expected on existing broad-leaved plants in the area to be treated. However, avoid application over areas with desired plants (ornamental flower beds etc.)' 107 x 150 mm

RECOMMENDED APPLICATION RATES

	Situation of Use			
Grass Species	Golf / Bowling green	Tees and fairway type turf (cut at < 18 mm)	Sports field / Out field (cut at >18 mm)	
Bent / Fescue /Meadow grass mix (Agrostis / Festuca / <i>Poa</i> sp mix)	0.4 l/ha ²	1.6 l/ha ²	2.4 l/ha ²	
Perennial ryegrass (Lolium perenne)	-	2.4 l/ha	3.2 l/ha	

These rates should provide up to 50% suppression of turf growth under good growing conditions for up to 4 weeks with minimal yellowing.

² Where yellowing of *Poa annua* is a concern, use half this rate.

PRIMO MAXX II use rates may need to be reduced by up to 50% less than the recommended rate for the situation of use for turfgrass grown under conditions of low fertility or other factors that stress the turf.

USE OF PRIMO MAXX II WITH LINE MARKING AGENTS

PRIMO MAXX II can extend the duration of marking visibility when applied before or with line marking agents.

Before line marking: Apply in 300 – 1000 litres water per hectare, using the dose of PRIMO MAXX II appropriate to the situation as detailed under 'RECOMMENDED APPLICATION RATES'

Marking paint mix: Mix PRIMO MAXX II with water first when combining with latex-based marking agents. Refer to the marking agents product label for further instructions. Apply PRIMO MAXX II at a rate of 2ml per litre of marking paint mix

REPEAT LEGAL REQUIREMENTS IF NECESSARY (eg. FRONT PAGE)

MULTIPLE APPLICATIONS

Multiple applications of PRIMO MAXX II can be made each growing season to provide season long growth suppression, but do not exceed a total of 16 litres of product per hectare per year.

MIXING AND SPRAYINGTO CREATE A 4, 8, 12 OR 16 PAGE BOOKLET

PRIMO MAXX II may be applied with knapsack sprayers, hand sprayers, boom sprayers and spray-gun application devices. Ensure that the sprayer or other applicator is clean and calibrated to give the correct volume and an even application. Add half of the required water to the sprayer. Add the required amount of PRIMO MAXX II and then the remaining water and begin agitation. Thoroughly wash all spraying equipment immediately after use. The diluted product must be used on the day of mixing.

For further information please see www.greencast.co.uk or www.greencast.ie

Section 6 of the Health and Safety at Work Act Additional Product Safety Information (UK only)

(This section does not form part of the product label under the Plant Protection Product 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 Product Regulations (UK only).

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

SAFETY DATA SHEET - v7.0

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

Trade Name: PRIMO MAXX II Design Code: A19238C Product Registration number: MAPP 17509, PCS No. 05401

1.2 Relevant Identified Uses of the substance or mixture and uses advised against Use of the Substance/Mixture: Plant growth regulator

1.3 Details of the supplier of the safety data sheet Approval Holder and UK Marketing Company Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom Telephone: +44 (0) 1223 883400 Telefax: +44 (0) 1223 882195 Ireland Marketing Company Syngenta Ireland Limited Block 6, Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland Telephone: +44 (051) 377203 E-mail address of person responsible for the SDS: customer.services@syngenta.com

1.4 Emergency telephone number Emergency phone No.: +44 1484 538444

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) MANENTLY AFFIXED TO THE BOTTLE, Acute toxicity. Category 4 H332: Harmful if inhaled.

Skin sensitisation, Category 1, RECH317: May cause an allergic skin reaction, FRONT PAGE) Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms	TO CREAT	E A 12 OF REMOVED AS NECESSARY
Signal Word	Warning	
Hazard Statements	H317 H332 H411	May cause an allergic skin reaction. Harmful if inhaled. 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	P102 Prevention:	Keep out of reach of children.
	P261 P273	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment.
	P280 Response:	Wear protective gloves/ protective clothing.
	P302+P352 P304+P340+ P312 P333+P313 P362+P364 P391 Pionenali	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Collect spillage.
	Disposal: P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

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.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS 3.2 Mixtures Hazardous Components

Chemical Name	CAS No. EC No. Registration Number	Classification	Concentration (% w/w)
trinexapac-ethyl	95266-40-3	Aquatic Chronic1; H410	>= 10 - < 20
calcium dodecylbenzene sulphonate	26264-06-2 247-557-8 01-2119560592-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1 01-2119484609-23	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 3 - < 10
Substances with a workplace exposure	limit :		
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		>= 30 - < 50
For explanation of abbreviations	<u>PE PAGE IS PERIVIANEI</u>	ECESSARY (eg. FRO	IE BOTTLE, NT PAGE)

SECTION 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 centre or physician, or going for treatment.

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 immediately.

In case of 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.

In case of eve contact : Rinse immediately with plenty of water, also under the evelids, 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 treatment needed

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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires 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 firefighting: 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. Flash back possible over considerable distance.

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 water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Refer to protective measures listed in sections 7 and 8.

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 authorities.

6.3 Methods and materials for containment and cleaning up

Methods for 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). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Betain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice 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. TO THE BOTTLE

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 well-ventilated place. Keep out of the reach of children. Keep away from food, drink

and animal feedingstuffs. TO CREATE A 4, 8, 12 OR 16 PAGE BOOKLET

7.3 Specific end use(s)

Specific use(s): 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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-methoxymethylethoxy) propanol	34590-94-8	TWA	50 ppm 308 mg/m ³	2000/39/EC
Further information	Identifies the possibility of s	significant uptake through the	skin, Indicative	
	34590-94-8	TWA	50 ppm 308 mg/m ³	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
trinexapac-ethyl	95266-40-3	TWA	5 mg/m ³	Syngenta
2-methylpropan-1-ol	78-83-1	TWA TEXT AREA	50 ppm 154 mg/m ³	GB EH40
	⁷⁸⁻⁸³⁻¹ 10	^{stel} 150 mm	75 ppm 231 mg/m ³	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-methylpropan-1-ol	Workers	Inhalation	Long-term systemic effects, Long-term local effects	310 mg/m ³
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	55 mg/m ³
	Consumers	Oral	Long-term systemic effects, Long-term local effects	25 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-methylpropan-1-ol	Fresh water	0.4 mg/l
	Sewage treatment plant	10 mg/l
	Soil	0.0699 mg/kg
	Marine sediment	0.152 mg/kg
	Fresh water sediment	1.52 mg/kg
	Marine water	0.04 mg/l

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.

Personal protective equipment

Eye protection : No special protective equipment required. ENTLY AFFIXED TO THE BOTTLE, Material : Nitrile rubber LEGAL REQUIREMENTS IF NECESSARY (eg. FRONT PAGE) 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 work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a particle filter (EN 143)

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/ vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, selfcontained breathing apparatus must be used.

Filter type : Particulates type (P)

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1 information on basic physical and chem	ical properties
Appearance :	clear
Colour:	No data available
Odour :	strong ADEA
Odour Threshold:	No data available
pH:	2.8 . 1 . 0
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Flash point :	74 °C
	Method: Pensky-Martens closed cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit/Upper flammability limit:	No data available
Lower explosion limit/Lower flammability limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density :	1.027 g/cm3 (20 °C)
Solubility(ies)	
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature :	340 °C
Decomposition temperature:	No data available
Viscosity	
Viscosity, dynamic :	98 mPa.s (20 °C)
Explosive properties:	No data available
Oxidizing properties :	The substance or mixture is not classified as oxidizing.
0.0 Other Information	
9.2 Other Information	
Surface tension: 30.5 mN/m	

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity None reasonably foreseeable ATE PAGE IS PERMANENTLY AFFIXED TO THE BOTTLE, 10.2 Chemical stability FGAL Stable under normal conditions. REQUIREMENTS IF NECESSARY (eg. FRONT PAGE)

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid Conditions to avoid : No decomposition if used as directed 10.5 Incompatible materials TO UAN BE ADDED OR REMOVED AS NECESSARY					
10.6 Hazardous decompos	own REATE A 4, 8, 12 OR 16 PAGE BOOKLET				
Hazardous decomposition p	products: No hazardous decomposition products are known.				
11.1 Information on toxico	SECTION 11. TOXICOLOGICAL INFORMATION 11.1 Information on toxicological effects				
Acute toxicity Product:	of exposure: Ingestion, Inhalation, Skin contact, Eye contact				
Acute oral toxicity :	LD50 (Rat, female): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity				
Acute inhalation toxicity :	LC50 (Rat, male and female): 2.85 - 5.06 mg/l Exposure time: 4 h				
Acute dermal toxicity :	Test atmosphere: dust/mist LD50 (Rat, male and female): > 5,000 mg/kg				
	Assessment: The substance or mixture has no acute oral toxicity				
Components: trinexapac-ethyl:					
Acute oral toxicity :	LD50 (Rat, male and female): 4,460 mg/kg				
Acute inhalation toxicity :	LC50 (Rat, male and female): > 5.69 mg/l Exposure time: 4 h				
	Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity				
Acute dermal toxicity :	LD50 (Rat, male and female): > 4,000 mg/kg				
2-methylpropan-1-ol:	Assessment: The substance or mixture has no acute dermal toxicity				
Acute oral toxicity :	LD50 (Rat): 2,830 - 3,350 mg/kg				
(2-methoxymethylethoxy)p Acute inhalation toxicity :	LC50 (Rat): 3.35 mg/l				
	Exposure time: 7 h Test atmosphere: dust/mist				
Acute dermal toxicity :	LD50 Dermal (Rabbit): 9,510 mg/kg				
Skin corrosion/irritation					
Product:					
Species: Rabbit Result: No skin irritation					
Components:					
trinexapac-ethyl: Species: Rabbit					
Result: No skin irritation	u de la constan				
calcium dodecylbenzene s Result: Irritating to skin.	supronate:				
2-methylpropan-1-ol: Result: Irritating to skin.					
Serious eye damage/eye in	rritation				
Product:					
Species: Rabbit Result: No eye irritation					
Components:					
trinexapac-ethyl: Species: Rabbit					
Result: No eye irritation	MATE PAGE IS PERMANENTLY AFFIXED TO THE BOTTLE,				
calcium dodecylbenzene s Result: Risk of serious dama	age to eyes. JIREMENTS IF NECESSARY (eg. FRONT PAGE)				
2-methylpropan-1-ol:					
Result: Risk of serious dama	age to eyes. 9				

Respiratory or skin sensitisation	
Product: Tost Typo: mouse hymphomacolis	CAN BE ADDED OR REMOVED AS NECESSARY
Result: May cause sensitisation by	ATE A 4 8, 12 OR 16 PAGE BOOKLET
Components:	
trinexapac-ethyl:	
Test Type: mouse lymphoma cells	
Species: Mouse Result: Did not cause sensitisation	on laboratory animals
nesult. Did not cause sensitisation	on aboratory animais.
Germ cell mutagenicity	
Components: trinexapac-ethvl:	
	nt: Animal testing did not show any mutagenic effects.
(2-methoxymethylethoxy)propand	
	nt: In vitro tests did not show mutagenic effects
	Ũ
Carcinogenicity	
Components: trinexapac-ethvl:	
	evidence of carcinogenicity in animal studies.
Caromogeniony - Assessment. NO	stadnos or ouromogeniony in animal studies.
Reproductive toxicity	
Components:	
trinexapac-ethyl: Reproductive toxicity - Assessment	u Na kavisiku ka yanya dushi an
(2-methoxymethylethoxy)propand	
	Animal testing did not show any effects on foetal development.
	107 x 150 mm
STOT - single exposure	107 X 100 mm
Components:	
2-methylpropan-1-ol:	ture is classified as specific target organ toxicant, single exposure,
	tation., The substance or mixture is classified as specific target organ
toxicant, single exposure, category	
Demonstration and the second states	
Repeated dose toxicity Components:	
trinexapac-ethyl:	
	en observed in chronic toxicity tests.
SECTION 12. ECOLOGICAL INFO	BMATION
12.1 Toxicity	
Product:	
Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Tovicity to donknin and other	Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquado montobrates.	Exposure time: 48 h
Toxicity to algae :	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
	Exposure time: 72 h
Components:	
trinexapac-ethyl: Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 68 mg/l
TONICITY TO HOLL .	Exposure time: 96 h
Toxicity to daphnia and other	•
aquatic invertebrates: LTIMATE	P/EC50 (Daphnia magna (Water flea)): > 142 mg/ITHE BOTTLE,
REPEAT LEGAL RE	Exposure time: 48 h NECESSARY (eg. FRONT PAGE)
	Exposure time: 96 h
	•

Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 24.5 mg/l
	Exposure time: 96 h ErC50 (<i>Myriophyllum spicatum</i> (Eurasian watermilfoil)): 1.2 mg/l
	Exposure time: 14 dR 16 PAGE BOOKLET (citik) o 011 mm/
	EC10 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.011 mg/l
	Exposure time: 14 d
	NOEC (Myriophyllum spicatum (Eurasian watermilfoil)): 0.025 mg/l
	Exposure time: 14 d
Toxicity to microorganisms:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity):	NOEC: 0.41 mg/l
foxicity to har (on onic toxicity).	Exposure time: 35 d
	Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other	
aquatic invertebrates (Chronic toxicity):	
	Exposure time: 21 d
	Species: Daphnia magna (Water flea) M-Factor (Chronic aquatic toxicity):1
Ecotoxicology Assessment	IN-I actor (Chilonic aquatic toxicity). I
Acute aquatic toxicity:	Toxic to aquatic life.
Chronic aquatic toxicity:	Very toxic to aquatic life with long lasting effects.
calcium dodecylbenzene sulphonat	te:
Ecotoxicology Assessment	
Chronic aquatic toxicity: 2-methylpropan-1-ol:	Harmful to aquatic life with long lasting effects.
Toxicity to daphnia and other	
aquatic invertebrates:	
	Exposure time: 21 d
	Test Type: semi-static test
(2-methoxymethylethoxy)propanol:	107 X 150 IIIII
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: $> 0.5 \text{ mg/l}$
aqualic invertebrates (Chilonic toxicity).	Exposure time: 22 d
	Species: Daphnia magna (Water flea)
Ecotoxicology Assessment	
Chronic aquatic toxicity:	This product has no known ecotoxicological effects.
12.2 Persistence and degradability	
Components:	
trinexapac-ethyl:	
Biodegradability: Result: Not readily	
Stability in water: Degradation half li	
Remarks: Product (2-methoxymethylethoxy)propanol:	is not persistent.
Biodegradability : Result: Readily bio	degradable.
Biodegradation: 75	
Exposure time: 28	d
12.3 Bioaccumulative potential	
Components:	
trinexapac-ethyl:	
Bioaccumulation : Remarks: Does no	
Partition coefficient: noctanol/water:	log Pow: -2.1 (25 °C), log Pow: -0.29 (25 °C), log Pow: 1.5 (25 °C)
12.4 Mobility in soil	
Components:	
Distribution among environmental co	mpartments: Remarks: Moderately mobile in soils
Stability in soil : Dissipation time: < 0	2 dREMENTS IF NECESSARV (on FRONT DACE)
Percentage dissipati	2 dREMENTS IF NECESSARY (eg. FRONT PAGE) on: 50 % (DT50)
Remarks: Product is	not persistent.
·	

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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.

Components: TO CREATER 4, 8, TZ OP TO PAGE BOOKLE

trinexapac-ethyl:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

2-methylpropan-1-ol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

(2-methoxymethylethoxy)propanol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

No data available

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 to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Waste Code: uncleaned packagings

150110, packaging containing residues of or contaminated by dangerous substances.

SECTION 14. TRANSPORT INFORMATION 07 X 150 mm

14.1 UN number

ADN:	UN 3082
ADR:	UN 3082
RID:	UN 3082
IMDG:	UN 3082
IATA:	UN 3082

14.2 UN proper shipping name

	a oper on pping name
ADN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)
ADR:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)
RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)
IATA:	Environmentally hazardous substance, liquid, n.o.s. (TRINEXAPAC-ETHYL)

14.3 Transport hazard class(es)

ADN:	9
ADR:	9
RID:	9
IMDG:	9
IATA:	9

14.4 Packing group ADN

Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 91 HE PENULTIMATE PAGE IS PERMANENTLY AFFIXED TO THE BOTTLE, ADR Packing group: III-AT LEGAL REQUIREMENTS IF NECESSARY (eg. FRONT PAGE) 'Classification Code: M6

Hazard Identification Number: 90

Labels: 9 Tunnel restriction code: (-) RID Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 IMDG

Packing group: III Labels: 9 EmS Code: F-A, S-F JATA (Cargo) Packing instruction (cargo aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous JATA (Passenger) Packing instruction (passenger aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous

14.5 Environmental hazards ADN

Environmentally hazardous: yes

Environmentally hazardous: yes

Environmentally hazardous: yes

Marine pollutant: yes IATA (Passenger) Marine pollutant: yes IATA (Cargo) Marine pollutant: yes

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2 E2 ENVIRONMENTAL HAZARDS 200 t 500 t

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Use plant protection products safely. Always read the label and product information before use. Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

TEXT AREA 107 x 150 mm

15.2 Chemical safety assessment

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

SECTION 16. OTHER INFORMATION EA 4, 8, 12 OR 16 PAGE BOOKLET

Full text of H-Statements

H226: Flammable liquid and vapour.

- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H410: Very toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic :	Chronic aquatic toxicity	i
Eye Dam. :	Serious eye damage	į.
Flam. Liq. :	Flammable liquids	i.
Skin Irrit. :	Skin irritation	i.
STOT SE :	Specific target organ toxicity - single exposure	ł
2000/39/EC:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational	ſ
	exposure limit values	i
GB EH40:	UK. EH40 WEL - Workplace Exposure Limits	i
2000/39/EC / TWA:	Limit Value - eight hours	i.
GB EH40 / TWA:	Long-term exposure limit (8-hour TWA reference period)	ł
GB EH40 / STEL:	Short-term exposure limit (15-minute reference period)	l

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 Labelling Packaging Regulation: Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Cana-da); ECHA - European Chemicals Agency; EC-Number - European Community number: ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: 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 Transport 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; SHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELB - No Observable Effect Loading Rate: NZIOC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory: TRGS - Technical Rule for Hazardous Substances: TSCA -Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Cla	ssification of the	mixture:	Classification procedure:
Acu	ite Tox. 4	H332	Based on product data or assessment
Skir	n Sens. 1	H317	Based on product data or assessment
Aqu	uatic Chronic 2	H411	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, infor-mation and belief at the date of its publication. The information given is designed only as a guid-ance 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.

PRIMO Maxx II®

IMPORTANT INFORMATION

TO CREATE A 4, 8, 12 OR 16 PAGE BOOKLET

FOR USE ONLY AS AN HORTICULTURAL PLANT GROWTH REGULATOR

For use on:Managed amenity turf and amenity grassland.Maximum individual dose:3.2 litres product/hectare.Maximum total dose per year:16 litres product/hectare/year.

Other Specific Restrictions:

A minimum interval of 7 days must be observed between applications. No more than 28 applications must be carried out on managed amenity turf and amenity grassland per year.

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 (references to COSHH apply to the UK use only)

(a) Operator protection

FEXT AREA

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

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection. WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Consumer protection

NOT TO BE USED ON FOOD CROPS

(c) Environmental Protection

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from hard surfaces and roads).

(d) 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.

THE PENULTIMATE PAGE IS PERMANENTLY AFFIXED TO THE BOTTLE, REPEAT LEGAL REQUIREMENTS IF NECESSARY (eg. FRONT PAGE)

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