

**PRIMO MAXX**

Version 7 - This version replaces all previous versions.  
Revision Date 09.09.2014

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**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

**Product name** : PRIMO MAXX

**Design code** : A11825A

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use** : Plant growth regulator

**1.3 Details of the supplier of the safety data sheet**

**Company** Syngenta UK Limited  
CPC4, Capital Park  
Fulbourn, Cambridge  
CB21 5XE

**Telephone** : (01223) 883400

**Telefax** : (01223) 882195

**Website** : [www.syngenta.co.uk](http://www.syngenta.co.uk)

**1.4 Emergency telephone number**

: +44 (0) 1484 538444

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**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Eye irritation	Category 2	H319
Reproductive toxicity	Sub Category 1B	H360Df
Chronic aquatic toxicity	Category 3	H412

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

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

T, Toxic

R61: May cause harm to the unborn child.

R62: Possible risk of impaired fertility.


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### 2.2 Label elements


Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
		
Signal Word	:Danger	
Hazard Statements	:H319	Causes serious eye irritation.
	:H360Df	May damage the unborn child. Suspected of damaging fertility.
	:H412	Harmful to aquatic life with long lasting effects.
Precautions Statements	:P102	Keep out of reach of children
	:P201	Obtain special instructions before use.
	:P273	Avoid release to the environment.
	:P280	Wear protective gloves/protective clothing/eye protection/face protection.
	:P308/P313	IF exposed or concerned: Get medical advice/attention.
:P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.	
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- Tetrahydrofurfuryl alcohol

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

Symbol(s)		
		
Toxic		
R-phrases	:R61	May cause harm to the unborn child.
	:R62	Possible risk of impaired fertility.
S-phrases	:S2	Keep out of reach of children
	:S13	Keep away from food, drink and animal feedingstuffs.
	:S20/21	When using do not eat, drink or smoke.
	:S36/37	Wear suitable protective clothing and gloves.
Additional labelling	:	To avoid risks to man and the environment, comply with the instructions for use.

### 2.3 Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
Tetrahydrofurfuryl alcohol	97-99-4 202-625-6	T R61 R62 R36	Repr.1B; H360Df Eye Irrit.2; H319	50 - 70 % W/W
trinexapac-ethyl	95266-40-3	N R51/53	Aquatic Chronic2; H411	11.3 % W/W

Substances for which there are Community workplace exposure limits.

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

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

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- General Advice : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.
- Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
- Skin Contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
- Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and

**delayed Symptoms** : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Medical advice** : There is no specific antidote available. Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

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- 5.1 Extinguishing media**  
Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Use alcohol-resistant foam or water spray.  
Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Special hazards arising from the substance or mixture**  
As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
- 5.3 Advice for fire-fighters:**  
Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Refer to protective measures listed in sections 7 and 8.
- 6.2 Environmental precautions:**  
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and materials for containment and cleaning up**  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.
- 6.4 Reference to other sections**  
Refer to protective measures listed in sections 7 and 8.  
Refer to disposal considerations listed in section 13.
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**SECTION 7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
- 7.2 Conditions for safe storage, including any incompatibilities**  
No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
- 7.3 Specific end use(s)**  
Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.
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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

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Components	Exposure limit(s)	Type of exposure limit	Source
trinexapac-ethyl	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

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

### 8.2 Exposure controls

- Engineering Measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mist or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Suitable material: nitrile rubber.  
Break through time: > 480 min  
Glove thickness: 0.5 mm  
Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye Protection** : Eye protection is not usually required. Follow any site specific eye protection policies.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Physical State** : Liquid  
**Form** : Liquid  
**Colour** : Orange to red  
**Odour** : Odourless  
**Odour Threshold** : No data available  
**pH** : 2 – 6 at 1 % w/v  
**Melting point/range** : No data available

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<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: 82 °C at 1,013 hPa DIN EN22719
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density</b>	: No data available
<b>Density</b>	: 1.07 g/cm <sup>3</sup> at 20 °C
<b>Solubility in other solvents</b>	: No data available
<b>Partition Coefficient n-octanol/water</b>	: No data available
<b>Autoignition temperature</b>	: 265 °C
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: 48.7 mPa.s at 20 °C 23.5 mPa.s at 40 °C
<b>Viscosity, kinematic</b>	: No data available
<b>Explosive properties</b>	: Not explosive
<b>Oxidizing properties</b>	: Not oxidising

### 9.2 Other information

Surface tension : 38.6 mN/m at 20 °C

## SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: See Section 10.3 "Possibility of hazardous reactions"
<b>10.2 Chemical Stability</b>	: The product is stable when used in normal conditions
<b>10.3 Possibility of hazardous reactions</b>	: No hazardous reactions by normal handling and storage according to provisions.
<b>10.4 Conditions to avoid</b>	: No decomposition if used as directed.
<b>10.5 Incompatible materials</b>	: No substances are known which lead to the formation of hazardous substances or thermal reactions.
<b>10.6 Hazardous decomposition products</b>	: Combustion or thermal decomposition will evolve toxic and irritant vapours.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	: LD50 male and female rat, > 5,050 mg/kg
<b>Acute inhalational toxicity</b>	: LC50 male and female rat, > 2.57 mg/l, 4h
<b>Acute dermal toxicity</b>	: LD50 male and female rabbit, > 2,020 mg/kg
<b>Skin corrosion/irritation</b>	: Rabbit: non-irritating
<b>Serious eye damage/eye irritation</b>	: Rabbit: moderately irritating
<b>Respiratory or skin sensitisation</b>	: Buehlet Test guinea pig: not a skin sensitiser in animal tests.
<b>Germ cell mutagenicity</b>	:
Trinexapac-ethyl	: Did not show mutagenic effects in animal experiments.
<b>Carcinogenicity</b>	:
Trinexapac-ethyl	: Did not show carcinogenic effects in animal experiments.
<b>Teratogenicity</b>	:

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<b>Trinexapac-ethyl</b>	:	Did not show teratogenic effects in animal experiments.
<b>Reproductive toxicity</b>	:	
Tetrahydrofurfuryl alcohol	:	May damage the unborn child. Suspected of damaging fertility.
Trinexapac-ethyl	:	Did not show reproductive toxicity effects in animal experiments.
<b>STOT – repeated exposure</b>	:	
Trinexapac-ethyl	:	No adverse effect has been observed in chronic toxicity tests.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), > 120 mg/l, 96h
<b>Toxicity to aquatic invertebrates</b>	:	EC50 <i>Daphnia magna</i> (Water flea), > 120 mg/l, 48h
<b>Toxicity to aquatic plants</b>	:	ErC50 <i>Anabaena flos-aquae</i> (bluegreen algae), > 120 mg/l, 96 h EbC50 <i>Anabaena flos-aquae</i> (bluegreen algae), > 120 mg/l, 96 h

#### 12.2 Persistence and degradability

Biodegradability	:	Not readily biodegradable
Stability in water	:	
Trinexapac-ethyl	:	Degradation half life: 3.9 – 5.5 d. Not persistent in water
Stability in soil	:	
Trinexapac-ethyl	:	Degradation half life: < 0.2 d. Not persistent in soil

#### 12.3 Bioaccumulative potential

trinexapac-ethyl : Does not bioaccumulate.

#### 12.4 Mobility in soil

trinexapac-ethyl : Medium mobility in soil.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Other adverse effects

Classification of the product is based on the summation of the concentrations of classified components.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

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

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### SECTION 14. TRANSPORT INFORMATION

**Land transport** (ADR/RID), **Sea transport**(IMDG), **Air transport** (IATA-DGR)

14.1	UN Number	:	Not applicable
14.2	UN proper shipping name	:	Not applicable
14.3	Transport hazard class(es)	:	Not applicable
14.4	Packing Group	;	Not applicable
Labels		:	Not applicable
14.6	Special precautions for user	:	none


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

not applicable

### SECTION 15. REGULATORY INFORMATION

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

GHS-Labeling

Hazard pictograms		
		
Signal Word	:Danger	
Hazard Statements	:H319	Causes serious eye irritation.
	:H360Df	May damage the unborn child. Suspected of damaging fertility.
	:H412	Harmful to aquatic life with long lasting effects.
Precautions Statements	:P102	Keep out of reach of children
	:P201	Obtain special instructions before use.
	:P273	Avoid release to the environment.
	:P280	Wear protective gloves/protective clothing/eye protection/face protection.
	:P308/P313	IF exposed or concerned: Get medical advice/attention.
	:P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	: EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label:

- Tetrahydrofurfuryl alcohol

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16. OTHER INFORMATION

Approval number, MAPP 13374.

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



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Based upon SDS release dated 09/09/2014, version 7 with local amendment.

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

R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.

Full text of H-Statements referred to under sections 2 and 3.

H319	Causes serious eye irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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