

## AUSTRAL PLUS

Version 6 - This version replaces all previous versions.

Revision Date 06.09.2013

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

#### 1.1 Product identifier

**Product name** : AUSTRAL PLUS

**Design code** : A12292E

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

**Use** : Insecticide/Fungicide Seed Treatment

#### 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

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

#### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



**Signal Word** :Warning

**Hazard Statements** :H410 Very toxic to aquatic life with long lasting effects.

**Precautions Statements** :P273 Avoid release to environment  
:P391 Collect spillage

**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:

#### 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
Fludioxonil	131341-86-1	N R50/53	Aquatic Acute1; H400 Aquatic Chronic1; H410	1 % w/w
Tefluthrin	79538-32-2	T+, N R24 R26/28 R50/53	Acute Tox.2; H300 Acute Tox.2; H310 Acute Tox.1; H330 Aquatic Acute1; H400 Aquatic Chronic1; H410	3.9 % w/w
Propane-1,2-diol	57-55-6 200-338-0	-	-	1 – 5 % w/w
Poly(oxy-1,2-ethanediyl), alpha-sulfo- omega -[tris(1-phenyl ethyl) phenoxy]- ammonium salt	119432-41-6 137672-70-9	R52/53	Aquatic Chronic3; H412	1 – 5 % w/w
Naphthalene-sulfonic acid, dimethyl-, polymer with formaldehyde and methylnaphthalenes ulfonic acid, sodium salt	9008-63-3	Xi R36/38	Eye Irrit.2; H319 Skin Irrit.2; H315	1 – 5 % w/w
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 01-2119455851-35-0002	Xn, N R10 R37 R51/53 R65 R66 R67	Flam. Liq.3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic 2; H411	1 – 5 % w/w

Substances for which there are Community workplace exposure limits.

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.

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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 : Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.

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

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

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## SECTION 5. FIREFIGHTING MEASURES

- 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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
Fludioxonil	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
Tefluthrin	0.04 mg/m <sup>3</sup> (skin)	8 h TWA	SYNGENTA
Propane-1,2-diol	10 mg/m <sup>3</sup> (particulates) 150 ppm, 470 mg/m <sup>3</sup> (Total(vapour and particulates))	8 h TWA 8 h TWA	UK HSE UK HSE

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

#### 8.2 Exposure controls

- Engineering Measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or 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** : Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when

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	breakthrough is suspected. Suitable material: nitrile rubber.
Eye Protection	: Eye protection is not usually required. Follow any site specific eye protection policies.
Skin and body protection	: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical State	: Liquid
Form	: Suspension
Colour	: Light red to dark red
Odour	: sweetish
Odour Threshold	: No data available
pH	: 5 – 9 at 1% w/v
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 97 °C at 102 kPa Pensky-Martens c.c.
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.076 g/cm <sup>3</sup> at 20 °C
Solubility in other solvents	: No data available
Partition Coefficient n-octanol/water	: No data available
Autoignition temperature	: 610 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: 47.2 – 369 mPa.s at 40 °C 62.3 – 433 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

#### 9.2 Other information

Surface tension	: 29.1 mN/m at 20 °C
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### SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: No information available
10.2 Chemical Stability	: No information available
10.3 Possibility of hazardous reactions	: None known. Hazardous polymerisation does not occur.
10.4 Conditions to avoid	: No information available

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<b>10.5 Incompatible materials</b>	:	No information available
<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 female rat, > 2,000 mg/kg
<b>Acute inhalational toxicity</b>	:	Median lethal concentration male and female rat, > 3.81 mg/l, 4h
<b>Acute dermal toxicity</b>	:	LD50 male and female rat, > 2,000 mg/kg
<b>Skin corrosion/irritation</b>	:	Rabbit: non-irritating. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.
<b>Serious eye damage/eye irritation</b>	:	Rabbit: mildly irritating
<b>Respiratory or skin sensitisation</b>	:	Guinea pig: not a skin sensitiser
<b>Germ cell mutagenicity</b>	:	
<b>Fludioxonil</b>	:	Did not show mutagenic effects in animal experiments.
<b>Tefluthrin</b>	:	Did not show mutagenic effects in animal experiments.
<b>Carcinogenicity</b>	:	
<b>Fludioxonil</b>	:	Did not show carcinogenic effects in animal experiments.
<b>Tefluthrin</b>	:	Did not show carcinogenic effects in animal experiments.
<b>Teratogenicity</b>	:	
<b>Tefluthrin</b>	:	Did not show teratogenic effects in animal experiments.
<b>Reproductive toxicity</b>	:	
<b>Fludioxonil</b>	:	Did not show reproductive toxicity effects in animal experiments.
<b>Tefluthrin</b>	:	Did not show reproductive toxicity effects in animal experiments.
<b>STOT – repeated exposure</b>	:	
<b>Fludioxonil</b>	:	No adverse effect has been observed in chronic toxicity tests.
<b>Tefluthrin</b>	:	No adverse effect has been observed in chronic toxicity tests.
<b>Aspiration Toxicity</b>	:	
<b>Solvent naphtha (petroleum), light arom.</b>	:	Aspiration hazard if swallowed – can enter lungs and cause damage.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), 24 µg/l, 96h
<b>Toxicity to aquatic invertebrates</b>	:	EC50 <i>Daphnia magna</i> (Water flea), 1.6 µg/l, 48h
<b>Toxicity to aquatic plants</b>	:	EbC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 20 mg/l , 96 h ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 124 mg/l , 96 h

#### 12.2 Persistence and degradability

<b>Biodegradability</b>	:	
fludioxonil	:	Fludioxonil is not readily biodegradable.
<b>Stability in water</b>	:	
Fludioxonil	:	Degradation half life: 450 – 700 d Fludioxonil is stable in water
tefluthrin	:	Degradation half life: 60 – 203 d Tefluthrin is stable in water
<b>Stability in soil</b>	:	
Fludioxonil	:	Degradation half life: 14 d Not persistent in soil

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tefluthrin                      Degradation half life: 48 – 151 d  
Not persistent in soil

### 12.3 Bioaccumulative potential

Fludioxonil           : Does not bioaccumulate.  
tefluthrin             : Tefluthrin bioaccumulates.

### 12.4 Mobility in soil

Fludioxonil           : Fludioxonil is immobile in soil.  
tefluthrin             : Tefluthrin is immobile in soil.

### 12.5 Results of PBT and vPvB assessment

Fludioxonil, tefluthrin       : These substances are not considered to be persistent, bioaccumulating nor toxic (PBT). These substances are not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

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

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

## SECTION 14. TRANSPORT INFORMATION

### Land transport (ADR/RID)

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

### Sea transport(IMDG)

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

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### Air transport (IATA-DGR)

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

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

not applicable

## SECTION 15. REGULATORY INFORMATION

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

#### GHS-Labeling

Hazard pictograms



Signal Word :Warning

Hazard Statements :H410 Very toxic to aquatic life with long lasting effects.

Precautions Statements :P273 Avoid release to the environment  
:P391 Collect spillage

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:

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16. OTHER INFORMATION

Approval number, MAPP 13314.

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

Based upon SDS release dated 06/09/2013, version 6 with local amendment.

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

H226 Flammable liquid and vapour  
H300 Fatal if swallowed  
H304 May be fatal if swallowed and enters airways



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H310	Fatal in contact with skin.
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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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