



A soluble concentrate composition containing 16% w/w ammonium sulphate and 0.95% w/w polyacrylamide.  
A patented formulation of water conditioning agents, spray drift retardant, acidifying agent, pH buffer and an anti-foam.  
The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

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Companion™ is a trademark of BASF.

Companion™ Gold is distributed in Europe by Agrovista UK Ltd and its affiliated companies

## SAFETY PRECAUTIONS

### OPERATOR PROTECTION

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

\* WEAR SUITABLE PROTECTIVE CLOTHING (OVERALLS), PROTECTIVE GLOVES AND EYE / FACE PROTECTION when handling the concentrate. However, engineering controls may replace personal protective equipment (PPE) if a COSHH assessment shows that they provide an equal or higher standard of protection.

AVOID CONTACT WITH SKIN AND EYES.

DO NOT BREATHE SPRAY.

IN CASE OF INSUFFICIENT VENTILATION, wear suitable respiratory equipment.

WHEN USING DO NOT EAT DRINK OR SMOKE.

WASH HANDS AND SKIN before meals and after work.

IF TANK MIXING WITH A PESTICIDE follow all the operator instructions for the pesticide.

### ENVIRONMENTAL PROTECTION

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

### STORAGE AND DISPOSAL

KEEP IN ORIGINAL CONTAINER. Protect from frost

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

ADJ number: 0723

**5 litres**

**COMPANION™ GOLD**

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

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED \* IS A LEGAL REQUIREMENT FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/INDUSTRIAL/ FORESTRY STICKING/EXTENDING AGENT

Maximum number of treatments: Follow the statutory conditions of use of the pesticide in combination with the "Directions for use" below.

Other specific restrictions: Follow all operator protection instructions for the pesticide. Where the personal protective equipment specified on the adjuvant label is different to that specified on the pesticide label, the highest level of protective equipment must be worn. READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE.

**DIRECTIONS FOR USE**

Companion™ Gold is an adjuvant that also softens hard water by sequestering harmful cations such as Calcium and Magnesium present in hard water. Companion™ Gold also contains a patented polymeric spray drift retardant system.

**Rates of Use**

Companion™ Gold should be used at a rate of 0.25 - 1.0 % concentration in the final spray solution e.g.

% concentration in the final spray solution	Recommended Quantity of Companion™ Gold per 100 litres spray solution
0.25%	0.25 litres
0.5%	0.5 litres
1.0%	1.0 litres

The dose rate is related to the crop/situation and hardness of the spray water used. The higher rate (above 0.5%) should be used where water hardness is above 300 degrees, provided the maximum concentration (% spray solution) specified on any edible crop is not exceeded.

**Mixing****A Directly into the spray tank**

1. Shake the container well.
2. Half-fill the spray tank with clean water.
3. Remove the filter basket.
4. Add Companion™ Gold slowly in a thin stream to the spray tank whilst under vigorous agitation, avoiding contact with the tank surfaces.
5. Replace filter basket and add crop protection chemical as recommended.
6. Fill spray tank with remaining water and continue agitation for 2 - 3 minutes , or longer in cold conditions, to ensure complete dispersion.

**B Via an induction bowl**

1. Shake container well.
2. Fill induction bowl with water.
3. Add Companion™ Gold slowly in a thin stream to the induction bowl and flush through with plenty of water.
4. Repeat steps 1 - 3 until the desired concentration is achieved.
5. Add crop protection chemical as recommended and fill spray tank with remaining water.

**REQUIREMENTS TO WHICH USE OF ADJUVANT IS SUBJECT**

Field of use: ONLY AS AN AGRICULTURAL/ HORTICULTURAL/ INDUSTRIAL/ FORESTRY STICKING/ EXTENDING AGENT

Crops/situations:	Pesticides	Maximum Concentration (% spray solution):	Maximum number of treatments:	Latest time of application:
All non edible crops	All approved pesticides	1.0	Follow the statutory conditions of use of the pesticide	
All edible crops	All approved pesticides at half or less than half the approved pesticide rate	1.0		
Oilseed rape	All approved formulations of diquat and glyphosate	0.5		
Winter and spring wheat, rye and triticale	All approved formulations of glyphosate	0.5		
All edible crops (stubble), all non edible crops (stubble), green cover on land temporarily removed from production, hard surfaces, permeable surfaces overlying soil, natural surfaces not intended to bear vegetation	All approved formulations of glyphosate	1.0		
Non crop production	All approved pesticides	1.0		

In addition, this adjuvant may be used at a maximum concentration of 1% spray solution on the following crops, up to the growth stages specified, with all approved pesticides applied up to their full approved rate.

Apple & pear	Up to and including fruit 5 -10mm	Oilseed rape	Up to and including 10% potential pods
Cherry & plum	Up to and including first fruit set	Linseed	Up to and including 10% capsules formed
Almond, apricot & peach	Up to and including first set	Sugar beet	Up to and including 6 fully expanded leaves
Table grapes & Wine grapes	Up to and including first set	Hops	Up to and including cone set
Broad bean, dwarf French bean, field bean, runner bean	Up to and including first pod	Cereals	Up to and including GS52 (1/4 inflorescence)
Combining and vining pea	Up to and including flat pod (non-edible pods only)	Forage Maize	Up to and including tip of tassel visible
Edible podded pea	Up to and including pod set	Potato	Up to and including tuber initiation

CONDITIONS OF SUPPLY All goods supplied by us are of high grade and we believe them to be suitable for the purpose recommended. Products are supplied solely for the use and applications recommended subject to strict adherence to the label conditions of storage and use. Other uses, applications and deviations from label recommendations are solely at the users own risk. Since we cannot exercise control over storage or seasonal factors affecting weather conditions, growth stage, crop condition and the composition of tank mixtures; NO liability or warranty is expressed or implied concerning the safety of tank mixtures or their biological effects on crop safety.

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name:** COMPANION GOLD

**Product code:** AG001

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

### 1.3. Details of the supplier of the safety data sheet

**Company name:** Agrovista U K Ltd

Cambridge House

Nottingham Road

Stapleford

Nottingham

NG9 8AB

United Kingdom

**Tel:** +44 (0) 1159 390 202

**Fax:** +44 (0) 1159 398 031

**Email:** [enquires@agrovista.co.uk](mailto:enquires@agrovista.co.uk)

### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1865 407 333 (For Emergency ONLY)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CHIP:** This product has no classification under CHIP.

### 2.2. Label elements

**Label elements under CHIP:**

**Hazard symbols:** No significant hazard.

**Safety phrases:** S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S24/25: Avoid contact with skin and eyes.

S23: Do not breathe spray.

S20/21: When using do not eat, drink or smoke.

### 2.3. Other hazards

**PBT:** This substance is not identified as a PBT substance.

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## Section 3: Composition/information on ingredients

### 3.2. Mixtures

**Contains:** No ingredients classified as hazardous under EU Directive 1999/45 EC

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If unconscious, check for breathing and apply artificial respiration if necessary.

**Inhalation:** Consult a doctor. Move to fresh air in case of accidental inhalation of vapours.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

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

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

[cont...]

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## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Smoking is forbidden.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**Storage quantity limits:** No storage limits

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** Not applicable.

### 8.2. Exposure controls

**Engineering measures:** Ensure all engineering measures mentioned in section 7 of SDS are in place. Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Nitrile gloves. PVC gloves. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Sweet-smelling

**Evaporation rate:** Negligible

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Miscible

**Also soluble in:** Most organic solvents.

[cont...]

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**Viscosity:** Highly viscous  
**Kinematic visc. 40°C (mm<sup>2</sup>/s):** ~ 300 mPa  
**Boiling point/range°C:** 329 - 443  
**Flammability limits %: lower:** No data  
**Flash point°C:** >93  
**Autoflammability°C:** >354  
**Relative density:** \* 1.170 - 1.185  
**VOC g/l:** No data

**Melting point/range°C:** -12  
**upper:** No data  
**Part.coeff. n-octanol/water:** No data  
**Vapour pressure:** 0.0001 mmHg  
**pH:** \* 4.5 - 5.5 (1 %)

## 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions. Avoid temperature extremes, especially frost and freezing conditions

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
SKN	RBT	LD50	>2020	mg/kg
ORL	RAT	LD50	>2000	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg

[cont...]

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## Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

**Delayed / immediate effects:** No data available.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	96H LC50	>100	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product is not classified for transport.

[cont...]

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## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.