



SAFETY DATA SHEET

HydroComplex™ Partner

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name	: HydroComplex™ Partner
Synonyms	: NPK 12-11-18
Use of the substance/preparation	: EC Fertiliser
Company/undertaking identification	
Manufacturer / Supplier	: Yara Australia Pty Ltd 201 Miller Street, Mezzanine Level North Sydney NSW 2060 Australia
	Tel: +61 2 9959 4266
	Fax: +61 2 9959 4050

Emergency telephone number : +61 4 1722 3075

2. Composition/information on ingredients

Substance/preparation : Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU regulations or National regulations.

Contains some or all of the following in addition to ammonium nitrate:- mono and di ammonium phosphate, potassium chloride, potassium sulphate, inert fillers and/or secondary nutrients and micro nutrients.

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

Inhalation	: Avoid breathing dust. If inhaled, remove to fresh air.
Ingestion	: If large quantities of this material are swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skin Contact	: Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.
Eye contact	: In case of contact with eyes, rinse immediately with a copious amount of water. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media	: Use water only in flooding quantities.
Special exposure hazards	: Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear. Avoid breathing dusts, vapours or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Hazardous thermal decomposition products	: These products are: carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), sulphur oxides (SO ₂ , SO ₃ , etc.), halogenated compounds, phosphates, hydrogen chloride.
Remark	: The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia.

Date of issue : 2005-02-11.

Page: 1/4

6. Accidental release measures

- Personal Precautions** : Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental precautions and clean-up methods** : Minimise contact of spilled material with soils to prevent runoff to surface waterways.

Use a tool to scoop up solid material and place into an appropriate labelled waste container. Do not mix with sawdust or other combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See Section 13 for Waste Disposal Information.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid creating dust when handling and avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.
- Storage** : Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with combustible materials.

8. Exposure controls/personal protection

- Occupational exposure limits** : Total inhalable dust - 10 mg/m³
Respirable dust - 4 mg/m³

Exposure controls

- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Use dust goggles if high dust concentration is generated.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid. (Beads solid.)
- Colour** : White. White to yellowish. Greyish white. Off-white. (Light.)
- Odour** : Odourless. (Slight.)

Important health, safety and environmental information

- pH** : 4 to 6 (Conc. (% w/w): 10) [Acidic.]
- Boiling point** : Decomposes.
- Melting/freezing point** : 140 to 150°C (284 to 302°F)
- Density (g/cm³)** : 0.95 to 1.2
- Solubility** : Soluble in cold water.

10. Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see section 7).
- Hazardous Decomposition Products** : These products are: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulphur oxides (SO₂, SO₃, etc.), halogenated compounds, phosphates, hydrogen chloride.

11. Toxicological information

Potential acute health effects

Adverse health effects are considered unlikely, when the product is used according to directions.

Acute toxicity

Ingredient name	Test	Result	Route	Species
Preparation	LD50	>2000 mg/kg	Oral	Rat

Over-exposure signs/symptoms

Target organs : Contains material which causes damage to the following organs: gastrointestinal tract, eye, lens or cornea.

12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result
Preparation	Fish (LC50)	96 hour(s)	>100 mg/l

Adverse effects : Used in excess quantities the product can cause eutrophication in water. The product is not expected to harm the environment when used properly according to directions.

Remarks : The product does not show any bioaccumulation phenomena.

13. Disposal considerations

Methods of disposal : Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations.

Hazardous waste : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 2001/118/EC.

14. Transport information

Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

Remarks : Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

15. Regulatory information

EU Regulations

Risk Phrases : This product is not classified according to the EU regulations.

Product use : Industrial applications.

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.

16. Other information

History

Date of issue : 2005-02-11.
Date of previous issue : No Previous Validation.
Version : 1

 Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 1

Page: 4/4