SAFETY DATA SHEET

AG30

Infosafe No.: LPWYG
Version No.: 1.0
ISSUED Date: 20/04/2011
ISSUED BY BIOCENTRAL LABORATORIES LTD

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name
AG30

Company Name
BIOCENTRAL LABORATORIES LTD

Address
22 Phillips Street Thebarton
SA 5031 Australia

Emergency Tel.
+61 415 824 608 or +61 458 047 431

Telephone/Fax Number
Tel: +61 8 8234 8886
Fax: +61 8 8234 8889

Recommended Use
Commercial horticultural/agricultural soil penetrant and water retention. The use of the product involves significant dilution with water (1,000:1 to 1,000:10).

2. HAZARD IDENTIFICATION

Hazard Classification
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.

Not Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Risk Phrase(s)
Not classified as hazardous according to criteria of NOHSC

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Ingredients determined not to be hazardous		100 %

4. FIRST-AID MEASURES

Inhalation
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion
Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Skin
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.

First Aid Facilities
Normal washroom facilities.

Advice to Doctor
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and sulphur oxides.

Specific Hazards
This product is non combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.

Precautions in connection with Fire
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage
Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.

Recommended Materials
Plastic/original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards
No exposure limits have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

Biological Limit Values
No biological limit allocated.

Engineering Controls
Not usually required. Industrial application: Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection
Not usually required. Industrial application: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection
Not usually required. Industrial application: Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection
Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and mainntenance.

Body Protection
Not usually required. Industrial application: Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Clear, amber or greenish liquid

Odour
Odourless

Melting Point
Not available

Boiling Point
100°C

Solubility in Water
Miscible

Specific Gravity
1.0

pH Value
6.5 - 6.7

Vapour Pressure
Not available

Vapour Density (Air=1)
Not available

Flash Point
Not applicable

Flammability
Non combustible

Auto-Ignition Temperature
Not applicable

Flammable Limits - Lower
Not applicable

Flammable Limits - Upper
Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Extremes of temperature.

Incompatible materials
Not available.

Hazardous Decomposition Products
Decomposition may lead to the release of toxic and/or irritating fumes including carbon monoxide and sulphur oxides.

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
Toxicity data: (Similar product)
LD50 (Oral, rat): > 5050 mg/Kg

LD50 (Dermal, rat): > 2020 mg/Kg

Primary Eye Irritation - Nonwashed Eyes:

Toxicity category IV

Irritation score: 0.7

Practically non-irritating.

Primary Eye Irritation - Washed Eyes:

Toxicity category IV

Irritation score: 1.3

Practically non-irritating.

Primary Dermal Irritation:

Primary irritation score: 0.2

Toxicity category IV

Slight irritant.

Inhalation
Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin
May be irritating to skin. The symptoms may include redness, itching and swelling.

Eye
May be irritating to eyes. The symptoms may include redness, itching and tearing.

Chronic Effects
Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Anionic polyacrylamide has no systemic toxicity to aquatic organisms or micro-organisms.

Persistence / Degradability
Non-degraded anionic polyacrylamide has been shown to be recalcitrant to microbial degradation. This is probably related to the extremely high molecular weight which renders microbial attack very difficult. However, once the polymer has been degraded through photolysis (i.e., the action of UV light), and the macromolecule broken down into oligomers, it becomes bioavailable and is biomineralized.

Mobility
Not available.

Bioaccumulative Potential
Anionic polyacrylamide has no potential to bioaccumulate, being completely soluble in water (only limited by viscosity) and insoluble in octanol.

Environmental Protection
Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish
LC50 (Brachydanio rerio) 96 hours: 178 - 357 mg/L
Test F242:OECD 203/GLP/report 21/12/1995

Acute Toxicity - Daphnia

EC50 (Daphnia magna) 48hr: 212 mg/L
Test F243:OECD 202/GLP/report 21/12/1995

Acute Toxicity - Algae
EC50A (I)/Chlorella vulgaris/ 96 hours: > 1,000 mg/L
EC50µ (I)/Chlorella vulgaris/ 96 hours: > 1,000 mg/L
No Observed Effect Concentration (NOEC): 708 mg/L
Test F244:OECD 201/GLP/report 21/12/1995

Acute Toxicity - Bacteria
EC10/Pseudomonas putida/ 18 hours: 127 mg/L
EC50/Pseudomonas putida/ 18 hours: 892 mg/L
Test F245:OECD 301F,DIN 38412-27,ISO 7027/GLP/report 21/12/1995

13. DISPOSAL CONSIDERATIONS

Disposal considerations
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information
Road and Rail
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Air transport
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Marine transport
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

U.N. Number
None Allocated

Proper Shipping Name
None Allocated

DG Class
None Allocated

Packing Group
None Allocated

15. REGULATORY INFORMATION

Regulatory information
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of MSDS
MSDS amendment; January 2015, SECTION 14 Transport information
MSDS Reviewed: April 2011
Supersedes: November 2007

Contact Person/Point
Biocentral laboratories:
Ph, business hours:
08 8234 8886

END OF SDS