

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : Citowett (For Agricultural Use)  
Product code : 468700

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : A tank mix adjuvant to improve wetting and spreading of pesticides.

#### 1.4. Details of manufacturer or importer

##### Supplier

Azelis Australia Pty Ltd  
Suites 217-219  
117 Old Pittwater Road, Brookvale, NSW 2100  
Australia  
Phone: +61 0299392188  
Fax: +61 0299392799  
e-mail: info@azelis.com.au

#### 1.5. Emergency phone number

Emergency number : 1800 127 406 (24 h, Australia) | +64 4 917 9888 (24 h, Worldwide)  
CareChem 24x7 : EUROPE: +44 1235 239670 | USA: +1 202 464 2554 | CANADA - +1 800  
579 7421 (Toll Free)| ASIA - +65 3158 1074 | MOROCCO - +44 1235 239671 | REST OF  
THE WORLD - +44 1865 407333 (English only)


### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :   
Exclamation mark

Signal word (GHS AU) : Warning

Contains : Octoxynol (60 – 90 %); Poly(oxy-1,2-ethanediyl),alpha - [(1,1,3,3-tetramethylbutyl) phenyl]-  
omega-hydroxy- (10 – 30 %)

Hazard statements (GHS AU) : H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation

Precautionary statements (GHS AU) : P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Octoxynol	9002-93-1	60 – 90	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Poly(oxy-1,2-ethanediyl),alpha - [(1,1,3,3-tetramethylbutyl) phenyl]-omega-hydroxy-	9036-19-5	10 – 30	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Comments : Ingredients determined to be Non-Hazardous: Balance.

## SECTION 4: First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Get medical advice/attention.

First-aid measures after skin contact : Take off contaminated clothing. Wash off with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

### 4.2. Symptoms caused by exposure

Symptoms/effects after skin contact : Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Symptoms/effects after eye contact : Causes serious eye irritation. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Symptoms/effects after ingestion : Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

### 4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical. Foam. Carbon dioxide. Water mist. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use water jet.

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### 5.2. Specific hazards arising from the chemical

- |  |   |
|--|---|
| Fire hazard                                      | : This Product will burn if exposed to fire.  |
| Explosion hazard                                 | : No direct explosion hazard.   |
| Hazardous decomposition products in case of fire | : Under fire conditions this product may emit toxic and/or irritating fumes and gases including: carbondioxide, carbon monoxide and oxides of nitrogen. |

### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |
| Other information              | : Use water spray to cool drums exposed to fire.  |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- |                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment.   |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Eliminate all sources of ignition. |

#### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

- |                          |  |
|--------------------------|--|
| For containment          | : Contain spill.   |
| Methods for cleaning up: | : Place inert absorbent, non-combustible material onto spillage. Use clean, non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Wear personal protective equipment. Avoid inhalation of vapours and mists, and skin or eye contact. 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. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Take precautions against static electricity discharges. Use proper grounding procedures. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  |

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

- |                        |   |
|------------------------|---|
| Storage conditions     | : Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, food stuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. |
| Incompatible materials | : Strong oxidising agents. acids. Bases.  |
| Storage area           | : For information on the design of the store room, reference should be made to Australian Standard AS1940-The storage and handling of flammable and combustible liquids.  |

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according to the Work Health and Safety (WHS) Regulations

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Monitoring methods

No additional information available

#### 8.3. Engineering controls

Appropriate engineering controls : This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

#### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Wear recommended personal protective equipment. Wear respiratory protection. Boots.

Hand protection : Protective gloves. Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances, i.e. method of handling, or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves- Selection, use and maintenance.

Eye protection : Safety glasses. Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS1337- Eye Protectors for Industrial Applications.

Skin and body protection : Wear suitable protective clothing. Suitable protective workwear, e.g. cotton overalls buttoned to neck, and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Respiratory protection : If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable vapour/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1716, Respiratory Protective Devices, in order to make necessary changes for individual circumstances.

#### Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment. Prevent runoff and contact with waterways, drains or sewers.

### SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : Clear.

Colour : As per product specification.

Odour : As per product specification.

Odour threshold : No data available

pH : 6 – 8 (1% aqueous solution)

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : Melting point: Not applicable

Boiling point : No data available

Flash point : > 150 °C

Auto-ignition temperature : No data available

Flammability : Non-Flammable

Vapour pressure : No data available

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Relative density	: $\approx 1.04$ (20 °C)
Density	: No data available
Solubility	: Water: Dispersible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available

### SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use. Will not undergo a hazardous polymerization.
Conditions to avoid	: Heat. open flames. Sources of ignition. Incompatibles.
Incompatible materials	: Strong oxidising agents. acids. Bases.
Hazardous decomposition products	: Under fire conditions this product may emit toxic and/or irritating fumes and gases including: carbon dioxide, carbon monoxide and oxides of nitrogen.

### SECTION 11: Toxicological information

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met).
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Citowett (For Agricultural Use)	
LD50 oral rat	500 mg/kg (male)
LD50 dermal rat	8000 mg/kg

Skin corrosion/irritation	: Causes skin irritation. pH: 6 – 8 (1% aqueous solution)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6 – 8 (1% aqueous solution)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Component	
Octoxynol (9002-93-1)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)
Poly(oxy-1,2-ethanediyl),alpha - [(1,1,3,3-tetramethylbutyl) phenyl]-omega-hydroxy- (9036-19-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

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Citowett (For Agricultural Use)	
LC50 - Fish [1]	8.9 mg/l (96 h, (Pimephales promelas (fathead minnow)))
EC50 - Crustacea [1]	26 mg/l (48 h, (Daphnia))

### 12.2. Persistence and degradability

Citowett (For Agricultural Use)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 %

Octoxynol (9002-93-1)	
Persistence and degradability	No additional information available.

Poly(oxy-1,2-ethanediyl),alpha - [(1,1,3,3-tetramethylbutyl) phenyl]-omega-hydroxy- (9036-19-5)	
Persistence and degradability	No additional information available.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)  
Other adverse effects : No additional information available

Citowett (For Agricultural Use)	
Fluorinated greenhouse gases	False

Octoxynol (9002-93-1)	
Fluorinated greenhouse gases	False

Poly(oxy-1,2-ethanediyl),alpha - [(1,1,3,3-tetramethylbutyl) phenyl]-omega-hydroxy- (9036-19-5)	
Fluorinated greenhouse gases	False

## SECTION 13: Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal should be in accordance with applicable regional, national and local laws and regulations.

## SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

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### 14.3. Transport hazard class(es)

#### ADG

Transport hazard class(es) (ADG) : Not regulated

#### IMDG

Transport hazard class(es) (IMDG) : Not regulated

#### IATA

Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (ADG) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available

#### Transport by road and rail

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations

#### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory) status : Not applicable

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Not Scheduled

#### Australian Pesticides and Veterinary Medicines Authority (APVMA)

Agricultural and veterinary chemicals act : This chemical is covered by the Agricultural and Veterinary Chemicals Act 1988

apvma Approval number : 83654

### 15.2. International agreements

No additional information available

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### SECTION 16: Other information

Classification	
Acute Tox. 4 (Oral)	H302
Skin Irrit. 2	H315
Eye Irrit. 2A	H319

Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.