

# SAFETY DATA SHEET



## BIOSAN

### APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: AP434

Version No: 3.3

Issue date: 13/01/2017

Safety Data Sheet according to WHS and ADG requirements

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

### Product Identifier

|                               |               |
|-------------------------------|---------------|
| Product name                  | BIOSAN        |
| Synonyms                      | AP434         |
| Other means of identification | Not Available |

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

|                          |         |
|--------------------------|---------|
| Relevant identified uses | Biocide |
|--------------------------|---------|

### Details of the manufacturer/importer

|                         |   |
|-------------------------|---|
| Registered company name | APPLIED PRODUCTS AUSTRALIA PTY LTD            |
| Address                 | 11 Gamma Close, Beresfield 2322 NSW Australia |
| Telephone               | (02) 4966 5516                                |
| Fax                     | (02) 4966 5510                                |
| Website                 | www.actichem.com.au                           |
| Email                   | info@actichem.com.au                          |

### Emergency telephone number

|                                   |                            |
|-----------------------------------|----------------------------|
| Association / Organisation        | Poisons Information Centre |
| Emergency telephone numbers       | 13 11 26                   |
| Other emergency telephone numbers | Not Available              |

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

|                        |  |
|------------------------|--|
| Poisons Schedule       | Not Applicable   |
| GHS Classification [1] | Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1  |
| Legend:                | 1. Classified by Chemwatch; 2. Classification drawn from HSI/S; 3. Classification drawn from EC Directive 1272/2008 - Annex VI |

### Label elements

|                    |  |
|--------------------|--|
| GHS label elements |  |
|--------------------|--|

|             |        |
|-------------|--------|
| SIGNAL WORD | DANGER |
|-------------|--------|

### Hazard statement(s)

|      |                           |
|------|---------------------------|
| H315 | Causes skin irritation    |
| H318 | Causes serious eye damage |

### Precautionary statement(s) Prevention

|      |                                |
|------|--------------------------------|
| P280 | Wear gloves and eye protection |
|------|--------------------------------|

**Precautionary statement(s) Response**

|                          |  |
|--------------------------|--|
| P305+P310+P351+P338      | IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302+P362+P352+P332+P313 | IF ON SKIN: Take off contaminated clothing. Wash with plenty of water and soap. If skin irritation occurs, get medical advice / attention.                                   |

**Precautionary statement(s) Storage**

|      |                 |
|------|-----------------|
| P405 | Store locked up |
|------|-----------------|

This SDS and the hazard classifications contained herein only apply to the product in its concentrated form as supplied. When diluted as recommended and ready-to-use, they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No    | %[weight] | Name                                     |
|-----------|-----------|--|
| 7173-51-5 | <10       | <u>didecylidimethylammonium chloride</u> |
| 64-02-8   | <10       | <u>EDTA tetrasodium salt</u>             |
| 9016-45-9 | <10       | <u>nonylphenol, ethoxylated</u>          |
| 67-63-0   | <10       | <u>isopropanol</u>                       |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | If this product comes in contact with eyes:<br>Seek medical advice / attention.<br>Wash out immediately with water.<br>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.<br>If irritation continues, seek medical attention.   |
| <b>Skin Contact</b> | If skin contact occurs:<br>Immediately remove all contaminated clothing, including footwear.<br>Flush skin and hair with running water (and soap if available).<br>Seek medical attention in event of irritation.  |
| <b>Inhalation</b>   | If fumes, aerosols or combustion products are inhaled remove from contaminated area.<br>Other measures are usually unnecessary.  |
| <b>Ingestion</b>    | <b>If swallowed do NOT induce vomiting.</b><br>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.<br>Observe the patient carefully.<br>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.<br>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.<br>Seek medical advice. |

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

|                            |   |
|----------------------------|---|
| <b>Extinguishing media</b> | There is no restriction on the type of extinguisher which may be used.<br>Use extinguishing media suitable for surrounding area |
|----------------------------|---|

**Special hazards arising from the substrate or mixture**

|                             |            |
|-----------------------------|------------|
| <b>Fire incompatibility</b> | None known |
|-----------------------------|------------|

**Advice for firefighters**

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | Alert Fire Brigade and tell them location and nature of hazard.<br>Wear breathing apparatus plus protective gloves in the event of a fire. .<br>Use firefighting procedures suitable for surrounding area.<br><b>DO NOT</b> approach containers suspected to be hot.<br>Cool fire exposed containers with water spray from a protected location.<br>If safe to do so, remove containers from path of fire. |
| <b>Fire/Explosion Hazard</b> | Non-combustible.<br>Not considered a significant fire risk, however containers may burn.<br>Heat may cause expansion or decomposition with violent rupture of containers.<br>Decomposes on heating and produces toxic fumes of: carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), other pyrolysis products typical of burning organic material.   |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | Rinse away with copious amounts of water.   |
| <b>Major Spills</b> | Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. |
|                     | Personal protective equipment advice is contained in Section 8 of this SDS  |

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Safe handling</b>     | <p><b>DO NOT</b> allow clothing wet with material to stay in contact with skin</p> <p>Avoid all personal contact.<br/>Wear protective clothing when risk of exposure occurs.<br/>Avoid contact with incompatible materials.<br/><b>When handling, DO NOT eat, drink or smoke.</b><br/>Keep containers securely sealed when not in use.<br/>Avoid physical damage to containers.</p> |
| <b>Other information</b> |   |

### Conditions for safe storage, including any incompatibilities

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | Polyethylene or polypropylene container.<br>Packing as recommended by manufacturer.<br>Check all containers are clearly labelled and free from leaks. |
| <b>Storage incompatibility</b> | None known  |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA


| Source                       | Ingredient  | Material name     | TWA                             | STEL                              | Peak          | Notes         |
|------------------------------|-------------|-------------------|---------------------------------|-----------------------------------|---------------|---------------|
| Australia Exposure Standards | isopropanol | Isopropyl alcohol | 983 mg/m <sup>3</sup> / 400 ppm | 1,230 mg/m <sup>3</sup> / 500 ppm | Not available | Not available |

#### EMERGENCY LIMITS

| Ingredient                       | Material name  | TEEL-1                | TEEL-2                | TEEL-3                  |
|----------------------------------|--|-----------------------|-----------------------|-------------------------|
| didecyldimethylammonium chloride | didecyldimethylammonium chloride                             | 0.3 mg/m <sup>3</sup> | 3.3 mg/m <sup>3</sup> | 17 mg/m <sup>3</sup>    |
| EDTA tetrasodium salt            | Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate | 30 mg/m <sup>3</sup>  | 330 mg/m <sup>3</sup> | 2,000 mg/m <sup>3</sup> |
| nonylphenol, ethoxylated         | Glycols, polyethylene, mono(p-nonylphenol) ether             | 9.9 mg/m <sup>3</sup> | 110 mg/m <sup>3</sup> | 300 mg/m <sup>3</sup>   |
| isopropanol                      | Isopropyl alcohol  | 400 ppm               | 400 ppm               | 12,000 pm               |

| Ingredient                       | Original IDLH | Revised IDLH    |
|----------------------------------|---------------|-----------------|
| didecyldimethylammonium chloride | Not Available | Not Available   |
| EDTA tetrasodium salt            | Not Available | Not Available   |
| nonylphenol, ethoxylated         | Not Available | Not Available   |
| isopropanol                      | 12,000 ppm    | 2,000 [LEL] ppm |

### Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.   |
| <b>Personal protection</b>              |   |
| <b>Eye and face protection</b>          | Safety glasses with side shields OR chemical goggles.<br>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hands/feet protection</b>            | Wear chemical protective gloves, e.g. Neoprene.  |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | Barrier cream.<br>Eye wash unit.   |
| <b>Thermal hazards</b>                  | Not Available  |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|   |                         |  |                |
|---|-------------------------|--|----------------|
| <b>Appearance</b>                                   | Clear colourless liquid |  |                |
| <b>Physical state</b>                               | Liquid                  | <b>Relative density (Water = 1)</b>            | Not Available  |
| <b>Odour</b>  | Lemon                   | <b>Molecular weight (g/mol)</b>                | Not Available  |
| <b>Odour threshold</b>                              | Not Available           | <b>Auto-ignition temperature(°C)</b>           | Not Applicable |
| <b>Melting point / freezing point (°C)</b>          | Not Available           | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>pH (as supplied)</b>                             | 10.0                    | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available           | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Flash point (°C)</b>                             | Not Applicable          | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available           | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Applicable          | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Available           | <b>Decomposition temperature</b>               | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | Not Applicable          | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | Not Available           | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water (g/L)</b>                    | Miscible                | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | Not Available           | <b>VOC g/L</b>                                 | Not Available  |

**SECTION 10 STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Reactivity</b>                         | See section 7  |
| <b>Chemical stability</b>                 | Unstable in the presence of incompatible materials.<br>Product is considered stable.<br>Hazardous polymerisation will not occur. |
| <b>Possibility of hazardous reactions</b> | See section 7  |
| <b>Conditions to avoid</b>                | See section 7  |
| <b>Incompatible materials</b>             | See section 7  |
| <b>Hazardous decomposition products</b>   | See section 5  |

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on toxicological effects**

|                     |   |
|---------------------|---|
| <b>Inhaled</b>      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC directives using animal models.)<br>Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting   |
| <b>Ingestion</b>    | Accidental ingestion of the material may be damaging to the health of the individual.   |
| <b>Skin Contact</b> | Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected<br>This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. |
| <b>Eye</b>          | If applied to the eyes, this material causes severe eye damage.<br>Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.   |
| <b>Chronic</b>      | There is no relevant data listed.   |

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

Not considered be ecotoxic.

**Persistence and degradability**

| Ingredient               | Persistence: Water/Soil   | Persistence: Air         |
|--------------------------|---------------------------|--------------------------|
| nonylphenol, ethoxylated | LOW                       | LOW                      |
| isopropanol              | LOW (Half-life = 14 days) | LOW (Half-life = 3 days) |

**Bio accumulative potential**

| Ingredient               | Bioaccumulation     |
|--------------------------|---------------------|
| nonylphenol, ethoxylated | LOW (BCF = 116)     |
| isopropanol              | LOW (LogKOW = 0.05) |

**Mobility in soil**

| Ingredient               | Mobility          |
|--------------------------|-------------------|
| nonylphenol, ethoxylated | LOW (KOC = 10220) |
| isopropanol              | HIGH (KOC =1.06)  |

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Waste treatment methods**

|                                     |   |
|-------------------------------------|---|
| <b>Product / packaging disposal</b> | Recycle containers whenever possible.<br>Product residues and containers should be disposed of in accordance with local government regulations. |
|-------------------------------------|---|

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**SECTION 14 TRANSPORT INFORMATION**

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**Labels Required**

|                         |                |
|-------------------------|----------------|
| <b>Marine Pollutant</b> | NO             |
| <b>HAZCHEM</b>          | Not Applicable |

**Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

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**SECTION 15 REGULATORY INFORMATION**

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**Safety, health and environmental regulations / legislation specific for the substance or mixture****DIDCYLDIMETHYLAMMONIUM CHLORIDE (7173-51-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Substances Information System - Consolidated Lists  
Australia Inventory of Chemical Substances (AICS)

**EDTA TETRASODIUM SALT (64-02-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Substances Information System - Consolidated Lists  
Australia Inventory of Chemical Substances (AICS)

**NONYLPHENOL, ETHOXYLATED (9016-45-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Inventory of Chemical Substances (AICS)

**ISOPROPANOL (67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Substances Information System - Consolidated Lists  
Australia Inventory of Chemical Substances (AICS)  
Australia Exposure Standards  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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**SECTION 16 OTHER INFORMATION**

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**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: [www.chemwatch.net](http://www.chemwatch.net)  
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

|          |   |
|----------|---|
| PC-TWA:  | Permissible Concentration-Time Weighted Average         |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit     |
| IARC:    | International Agency for Research on Cancer             |
| ACGIH:   | American Conference of Government Industrial Hygienists |
| STEL:    | Short Term Exposure Limit                               |
| TEEL:    | Temporary Emergency Exposure Limit                      |
| IDLH:    | Immediate Danger to Life or Health Concentrations       |
| OSF:     | Odour Safety Factor                                     |
| NOAEL:   | No Observed Effects Level                               |
| TLV:     | Threshold Limit Value                                   |
| LOD:     | Limit Of Detection                                      |
| OTV:     | Odour Threshold Value                                   |
| BCF:     | Bio Concentration Factors                               |
| BEI:     | Biological Exposure Index                               |

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**End of SDS**