

Safety Data Sheet according to WHS and ADG requirements

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

### Product Identifier

**Product name** BioEnzymes ENVIRO VEHICLE WASH  
**Chemical Name** Mixture blended from discrete components – not applicable  
**Synonyms** VEHICLE WASH  
**Chemical Formula** Mixture blended from discrete components – not applicable  
**Other Means of Identification** Not Available  
**CAS Number** Mixture blended from discrete components – not applicable

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

**Relevant Identified Uses** CLEANING AGENT – AUTOMOTIVE

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

**Registered Company Name** BioEnzymes  
**Address** 1C / 424 Bilsen Rd Geebung QLD 4034 AUSTRALIA  
**Telephone** +61 7 3630 4683  
**FAX**  
**Website** [www.bioenzymes.com.au](http://www.bioenzymes.com.au)  
**Email** [james@bioenzymes.com.au](mailto:james@bioenzymes.com.au)

### Emergency telephone number

**Organisation** Chemical Consulting Services Pty Ltd  
**Emergency Contact Number** 0417720832  
**Other Emergency Numbers** 13 11 26 (Poisons Information Centre Hotline)

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

### HAZARD RATING

|              |   |              |                                        |                                  |
|--------------|---|--------------|----------------------------------------|----------------------------------|
| Flammability | 0 | 0 = Minimum  | <b>POISONS SCHEDULE CLASSIFICATION</b> | NOT APPLICABLE<br>NOT APPLICABLE |
| Toxicity     | 0 | 1 = Low      |                                        |                                  |
| Body Contact | 1 | 2 = Moderate |                                        |                                  |
| Reactivity   | 0 | 3 = High     |                                        |                                  |
| Chronic      | 0 | 4 = Extreme  |                                        |                                  |

### Label elements

**GHS LABEL ELEMENTS**  
**SIGNAL WORD** NOT APPLICABLE

**Hazard statement(s)**

NOT APPLICABLE

**Precautionary statement(s) Prevention**

NOT APPLICABLE

**Precautionary statement(s) Response**

NOT APPLICABLE

**Precautionary statement(s) Storage**

NOT APPLICABLE

**Precautionary statement(s) Disposal**

NOT APPLICABLE

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

| CAS # | % w/w | NAME                                                                    |
|-------|-------|-------------------------------------------------------------------------|
|       | 100%  | Ingredients determined not to be hazardous at levels present in mixture |

**Mixtures**

See section above for composition of Substances

**SECTION 4 FIRST AID MEASURES**

**Description of first aid measures**

**Eye Contact**

If this product comes in contact with eyes:  
 Wash out immediately with water.  
 If irritation continues, seek medical attention.  
 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin Contact**

If skin contact occurs:  
 Immediately remove all contaminated clothing, including footwear.  
 Flush skin and hair with running water (and soap if available).  
 Seek medical attention in event of irritation.

**Inhalation**

If fumes, aerosols or combustion products are inhaled remove from contaminated area.  
 Other measures are usually unnecessary.

**Ingestion**

Immediately give a glass of water.  
 First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES**

**Extinguishing media**

There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

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

**Fire Incompatibility**

None known.

**Advice for firefighters**

**Fire Fighting**

Alert Fire Brigade and tell them location and nature of hazard.  
 Wear breathing apparatus plus protective gloves in the event of a fire.  
 Prevent, by any means available, spillage from entering drains or water courses.  
 Use fire fighting procedures suitable for surrounding area.  
**DO NOT** approach containers suspected to be hot.  
 Cool fire exposed containers with water spray from a protected location.  
 If safe to do so, remove containers from path of fire.  
 Equipment should be thoroughly decontaminated after use.

Non combustible.  
 Not considered a significant fire risk, however containers may burn.  
 Decomposition may produce toxic fumes of:., nitrogen oxides (NOx)

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

#### Minor Spills

Clean up all spills immediately.  
 Avoid contact with skin and eyes.  
 Control personal contact with the substance, by using protective equipment.  
 Use dry clean up procedures and avoid generating dust.  
 Place in a suitable, labelled container for waste disposal.

#### Major Spills

Minor hazard. – slip hazard  
**CAUTION:** Advise personnel in area.  
 Alert Emergency Services and tell them location and nature of hazard.  
 Control personal contact by wearing protective clothing.  
 Prevent, by any means available, spillage from entering drains or water courses.  
 Recover product wherever possible.  
**IF DRY:** Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. **IF WET:** Vacuum/shovel up and place in labelled containers for disposal.  
**ALWAYS:** Wash area down with large amounts of water and prevent runoff into drains.  
 If contamination of drains or waterways occurs, advise Emergency Services.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Avoid all personal contact, including inhalation.  
 Wear protective clothing when risk of exposure occurs.  
 Use in a well-ventilated area.  
 Prevent concentration in hollows and sumps.  
**DO NOT** enter confined spaces until atmosphere has been checked.  
**DO NOT** allow material to contact humans, exposed food or food utensils.  
 Avoid contact with incompatible materials.  
 When handling, **DO NOT** eat, drink or smoke.  
 Keep containers securely sealed when not in use.  
 Avoid physical damage to containers.  
 Always wash hands with soap and water after handling.  
 Work clothes should be laundered separately. Launder contaminated clothing before re-use.  
 Use good occupational work practice.  
 Observe manufacturer's storage and handling recommendations contained within this SDS.  
 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.  
 Store in original containers.  
 Keep containers securely sealed.  
 Store in a cool, dry, well-ventilated area.  
 Store away from incompatible materials and foodstuff containers.  
 Protect containers against physical damage and check regularly for leaks.  
 Observe manufacturer's storage and handling recommendations contained within this SDS.

### Conditions for safe storage, including any incompatibilities

#### Suitable container

Polyethylene or polypropylene container.  
 Packing as recommended by manufacturer.  
 Check all containers are clearly labelled and free from leaks.

#### Storage incompatibility

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

| Ingredient     | Material name | TEEL-1        | TEEL-2        | TEEL-3        |
|----------------|---------------|---------------|---------------|---------------|
| Not applicable |               | Not available | Not Available | Not Available |

#### MATERIAL DATA

### Exposure controls

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.

If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.

Such protection might consist of:

- (a): particle dust respirators, if necessary, combined with an absorption cartridge;
- (b): filter respirators with absorption cartridge or canister of the right type;
- (c): fresh-air hoods or masks.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### Personal protection



Safety glasses with side shields. Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. 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. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber. fluorocarbon. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly.

#### Other protection

Overalls.  
 P.V.C. apron.  
 Barrier cream.  
 Skin cleansing cream.  
 Eye wash unit.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

CLEAR BLUE LIQUID

|                                              |                |                                          |                |
|----------------------------------------------|----------------|------------------------------------------|----------------|
| Physical state                               | Liquid         | Relative Density (Water = 1)             | 1.05 @ 20°C    |
| Odour                                        | BLAND          | Partition co-efficient n-octanol / water | Not Available  |
| Odour Threshold                              | Not Available  | Autoignition Temperature                 | Not Available  |
| pH (as supplied)                             | 9.5 typical    | Decomposition Temperature                | Not Available  |
| Melting Point / Freezing Point (°C)          | Not Available  | Viscosity                                | 1 cSt @ 20°C   |
| Initial Boiling point and boiling range (°C) | 100°C          | Molecular Weight                         | Not Applicable |
| Flash Point (°C)                             | Not Applicable | Taste                                    | Not Applicable |
| Evaporation Rate                             | Not Determined | Explosive Properties                     | Not Applicable |
| Flammability                                 | Not Flammable  | Oxidizing Properties                     | Not Oxidising  |
| Upper Explosive Limit (UEL %)                | Not Applicable | Surface Tension (mN/m)                   | Not Determined |
| Lower Explosive Limit (LEL %)                | Not Applicable | Volatile Component                       | Approx. 95%    |
| Vapour pressure (kPa)                        | As for water   | Gas Group                                | Not Applicable |
| Solubility in water (g/L)                    | Miscible       | pH as a solution (1%)                    | 8.5 @ 25°C     |
| Vapour density (Air = 1)                     | Not Determined | VOC g/L                                  | Not determined |

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity** See section 7

**Chemical stability** Unstable in the presence of incompatible materials.  
 Product is considered stable.  
 Hazardous polymerisation will not occur.

**Possibility of hazardous reactions** See section 7

**Conditions to avoid** See section 7

**Incompatible materials** See section 7

**Hazardous decomposition products** See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Inhaled** This is not anticipated to be an issue under normal conditions of use.

**Ingestion** This is not anticipated to be an issue under normal conditions of use.

The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

### Skin Contact

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.

### Eye

Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

### Chronic

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures. Possible respiratory sensitizer\*. Respiratory sensitisation may result in allergic/asthma like responses; from coughing and minor breathing difficulties to bronchitis with wheezing, gasping.

### Reference Data

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

## SECTION 12 ECOLOGICAL INFORMATION

| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
|------------|----------|--------------------|---------|-------|--------|
|------------|----------|--------------------|---------|-------|--------|

Not determined to be an ecological risk.

### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

### Reduction

### Reuse

### Recycling

### Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Where in doubt contact the responsible authority.

Recycle wherever possible.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant NO

HAZCHEM Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

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

|                               |   |
|-------------------------------|---|
| Australia - AICS              | Y |
| Canada - DSL                  | Y |
| Canada - NDSL                 | Y |
| China - IECSC                 | Y |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS                  | Y |
| Korea - KECI                  | Y |
| New Zealand - NZIoC           | Y |
| Philippines - PICCS           | Y |
| USA - TSCA                    | Y |

Legend:

Y = All ingredients are on the inventory

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## SECTION 16 OTHER INFORMATION

Other information

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 Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index