

Safety Data Sheet

BIOCIDE IB

1. Identification

Trade name of product	: BIOCIDE IB
Other Shipping Name	: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Polyhexamethylene Biguanide Hydrochloride)
Supplier Address	: Symbio Australia Pty Ltd 71 Stradbroke Street Heathwood Qld 4110 Australia
Supplier Contact Details	: Phone: 1300 4 SYMBIO, email: sds@symbio.com.au
Emergency telephone number	: Poisons Information 131126
Material uses	: BIOCIDE
Product dilution information	: Use dilution = 1:300 to 1:1000 with water
Date of issue	: 1 October 2016



2. Hazards identification

Product AS SOLD

Classified as **DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

This material is **HAZARDOUS** according to Safe Work Australia's GHS Criteria.

Hazard Category

Acute Toxicity - Oral - Category 4

Serious Eye Damage/Irritation - Category 1

Skin Sensitisation - Category 1

Carcinogenicity - Category 2

Specific Target Organ Toxicity (Repeated Exposure) - Category 1

Acute Hazard to the Aquatic Environment - Category 1

Chronic Hazard to the Aquatic Environment - Category 1



Signal Word: DANGER

Hazard Statements:

Harmful if swallowed.

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

Keep out of reach of children.

Read label before use.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, vapours or spray.

Wash hands, face and all exposed skin thoroughly after handling.

BIOCIDE IB

Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective clothing, gloves, eye/face protection and suitable respirator.
Use personal protective equipment as required.

Response:

If medical advice is needed, have product container or label at hand.
IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
IF exposed or concerned: Get medical advice.
Get medical advice/attention if you feel unwell.
Collect spillage.

Storage:

Store locked up, in accordance with local regulatory requirements.

Disposal: Dispose in accordance with local regulatory requirements.

General Phrases: Keep out of reach of children.

Product AT USE DILUTION

Not a hazardous substance or mixture according to the Safe Work Australia's GHS Criteria.

3. Composition/information on ingredients

Product AS SOLD

Ingredient name	CAS number	Proportion %	TWA mg/m ³	STEL mg / m ³
Guanidine, N,N"-1,6-hexanediylbis [N'-cyano-, polymer with 1,6-hexanediamine, hydrochloride	27083-27-8	20	None allocated	None allocated

Ingredients, determined not to be hazardous according to Safe Work Australia's criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

Product AT USE DILUTION

Ingredient name	CAS number	Proportion %	TWA mg/m ³	STEL mg / m ³
None Allocated	None Allocated	None Allocated	None Allocated	None Allocated

Ingredients, determined not to be hazardous according to Safe Work Australia's criteria, and not dangerous according to the ADG Code, make up the product concentration at 100%.

4. First-aid measures

Eye contact

Product AS SOLD and AT USE DILUTION
: Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Urgently seek medical assistance.

Skin contact

: Remove contaminated clothing (wash before re-use). Then rinse with plenty of running water. Seek medical advice if symptoms occur.

Inhalation	: Remove to fresh air. Seek medical advice if symptoms occur.
Ingestion	: Do NOT induce vomiting. Rinse mouth. Give water to drink. Seek immediate medical advice.
Notes to physician	: Treat symptomatically. Effects may be delayed. Concentrated solution can cause corneal burns.

5. Fire-fighting measures

Extinguishing media	Product AS SOLD : If material is involved in a fire use alcohol resistant foam, carbon dioxide or dry chemical.	Product AT USE DILUTION Use an extinguisher agent suitable for the surrounding fire.
Specific Hazards arising from the chemical	: No specific hazard.	No specific hazard.
Special protective equipment and precautions for fire-fighters	: Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus in the event of a fire.	Fire fighters to wear self-contained breathing apparatus in the event of a fire.
Hazchem Code	: ●3Z	No Hazchem Code applicable

6. Accidental release measures

Personal precautions	Product AS SOLD : For small spills ensure suitable equipment and PPE is used. Dispose of waste in accordance with local rules. For large spills the following PPE is recommended to reduce risk: safety glasses, chemical resistant shoes & gloves, long sleeves / trousers. Remove non-essential personnel from the area.	Product AT USE DILUTION No special precautions necessary. For large spills remove non-essential personnel from the area.
Environmental precautions	: Contain large spills/releases using appropriate bunding or capping. Prevent entry into drainage systems, sewers and waterways.	Contain large spills/releases using appropriate bunding or capping. Prevent entry into waterways.
Methods for cleaning up	: Spills may be slippery. Small spills use mop and bucket, for larger spills contain with absorbent material, collect and dispose.	Spills may be slippery. Small spills use mop and bucket, for larger spills contain, collect and dispose in accordance with local regulations.

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

7. Handling and storage

Handling	Product AS SOLD and AT USE DILUTION : Use clean dispensing equipment, use appropriate PPE, always add product to water when diluting.
Storage	: Store in a cool, dry, well ventilated place. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store in original containers whenever possible. Check container compatibility before transfer. Keep containers closed when not in use - check regularly for leaks. Ensure good housekeeping in storage area.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code. for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of

Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Occupational exposure limits	: No information available on the product itself. Values for specific hazardous ingredients are shown in section 3.	No information available on the product itself. Values for specific hazardous ingredients are shown in section 3.
Engineering measures	: Use sensible work practices that reduce operator exposure to the product. Ensure that adequate ventilation is provided, and air is moving constantly in the area of use while drum is open. Keep containers closed when not in use.	Use sensible work practices that reduce operator exposure to the product. Ensure that adequate ventilation is provided. Keep containers closed when not in use.
Personal Protection		
Eyes	: Safety glasses or goggles.	PPE is not required for dilute solutions, however the following may be considered to reduce risk. Safety glasses.
Hands	: Chemical resistant gloves.	Chemical resistant gloves.
Respiratory	: If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.	No PPE required under normal use.
Skin	: Long sleeves/trousers/chemical resistant boots.	Long sleeves/trousers.

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Clear Liquid	Clear Liquid
Colour	: Colourless to pale yellow	Colourless
Odour	: Bland Chemical	Bland
pH	: 4.0 – 6.5	Neutral
Flash point (°C)	: NA	NA
Boiling point (°C)	: 102-105	100 (approx.)
Specific Gravity (g/ml @ 25°C)	: 1.03 – 1.05	1.00 (approx.)
Solubility in water	: Absolute	Absolute

10. Stability and reactivity

	Product AS SOLD and AT USE DILUTION
Reactivity	: None known.
Stability	: Stable under normal storage conditions.
Possibility of Hazardous Reactions	: None known.
Conditions to avoid	: Store in a cool dry place away from heat sources, acidic materials, strong oxidising or reducing agents.
Incompatible Materials	: Anionic surfactants and strong oxidising agents.

11. Toxicological information

Potential acute health effects

No acute health effects expected if the product is handled in accordance with instructions provided by the manufacturer. Symptoms that may result if the product is mishandled or if overexposure occurs include:

	Product AS SOLD	Product AT USE DILUTION
Ingestion	: Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause irritation to the mouth and digestive tract.	Minor irritation and discomfort only.
Skin	: May cause irritation to the skin. Prolonged contact may lead to irritation or other skin conditions (sensitisation).	Prolonged contact may lead to irritation or other skin conditions.
Eye	: May cause burns and possible permanent damage.	May cause irritation, reddening of eyes.
Inhalation:	: Inhalation of fine mists may cause irritation to the respiratory tract and nasal passages.	Inhalation of fine mists may cause irritation to the respiratory tract and nasal passages.

12. Ecological information

Ecotoxicity data

Persistence/degradability	: No information available.
Mobility in Soil	: No known significant effects.
Other adverse effects	: Expected to be very toxic to aquatic species with long lasting effects.

13. Disposal considerations

	Product AS SOLD	Product AT USE DILUTION
Methods of disposal	: Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.	Dispose of contents and container in accordance with local regulations.

14. Transport information

Product AS SOLD

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
- (b) IBCs.

Regulation	UN Number	Proper shipping name	Class	Packing group	Additional information
ADG	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (contains Polyhexamethylene Biguanide Hydrochloride)	9	III	Hazchem ●3Z

Product AT USE DILUTION

NOT Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

15. Regulatory information

Product AS SOLD

Classified as **DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

This material is **HAZARDOUS** according to Safe Work Australia's GHS Criteria.

All ingredients are listed on **AICS**.

This material is a **NOT** classified as a **SCHEDULE POISON** according to the SUSMP.

Hazard Category

Acute Toxicity - Oral - Category 4

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Precautionary Statements:**Prevention:**

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Do not breathe mist, vapours or spray.

Wash hands, face and all exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective clothing, gloves, eye/face protection and suitable respirator.

Use personal protective equipment as required.

Response:

If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor.

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Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF exposed or concerned: Get medical advice.

Get medical advice/attention if you feel unwell.

Collect spillage.

Storage:

Store locked up, in accordance with local regulatory requirements.

Disposal: Dispose in accordance with local regulatory requirements.

General Phrases: Keep out of reach of children.

Product AT USE DILUTION

Classified as **NON DANGEROUS GOODS** by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

This material is **NON-HAZARDOUS** according to Safe Work Australia's GHS Criteria.

This material is **NOT a SCHEDULE POISON** according to the SUSMP.

16. Other information

Literature References : Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Workplace exposure standards, Safe Work Australia.
Hazardous Sunstances/Chemicals Information System, Safe Work Australia.
Globally Harmonised System of classification and labelling of chemicals.
Raw material suppliers' SDS

Symbio Traffic Light System

Traffic Light	Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition) (ADG7)	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) as adopted by Work, Health and Safety regulations, Australia.	Notes
RED	✓	✓	PLUS products that are NOT Classified as Dangerous Goods according to ADG7, but classified as Corrosive to eyes and skin and/or Aspiration Hazard Category 1 and/or Toxic to humans according to the GHS as adopted by Work, Health and Safety regulations, Australia
AMBER	✗	✓	EXCLUDING products that are classified as Corrosive to eyes and skin and/or Aspiration Hazard Category 1 and/or Toxic to humans according to the GHS as adopted by Work, Health and Safety regulations, Australia
GREEN	✗	✗	

Prepared by : **Australian Chemical Services Pty Ltd (0411 863 178)**

This Safety Data Sheet is the first issue under the direction of the PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS of December 2011. The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

END OF SAFETY DATA SHEET