



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product:	JUGGERNAUT
Chemical Group:	N/A – Floral Volatiles and Perfumes
Recommended Use:	Sprayable kairomone insect bait for the management of insect pests.
Company:	Bioglobal Limited
Address:	12 Electronics Street, Eight Mile Plains QLD 4113
Customer Service Tel/Fax:	+61 (0)7 3340 9999/ +61 (0)7 3340 9900
Email:	enquiries@bioglobal.com.au
Website:	www.bioglobal.com.au
Emergency Numbers (Australia):	000 – Emergency Call Service (Fire, Ambulance, Police) 13 11 26 – National Poisons Information Centre
Emergency Numbers (NZ):	111 – Transport Emergencies Phone (Fire, Ambulance, Police) 0800 CHEMCALL (0800 243 622) – 24hr Emergencies Only 0800 POISON (0800 764 766) – National Poisons Information Centre

2. HAZARDS IDENTIFICATION

Dangerous goods:	
Dangerous goods class:	N/A – all food grade ingredients
Hazchem code:	-

3. COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Entity	CAS Number	Proportion
Kairomone mixture	n/a	5.4%
Feeding stimulant	57-50-1	73.53%
Stabilisers	n/a	1.19%
Pigment	n/a	0.05%
Water	7732-18-5	19.83%

The above liquid is enclosed in a lined HDPE drum (called containers from herein).

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 03 4747000.

Swallowed:	Give water or milk to dilute and induce vomiting immediately. Never give anything to an unconscious person. Seek medical attention.
Eye:	Do NOT allow victim to rub or keep eyes closed. Rinse eyes with water for at least 15 minutes. Seek medical advice if irritation develops.
Skin:	Wash immediately with soap and water. Remove contaminated clothes. Get Medical Advice if irritation develops. Wash clothes in water before reuse.
Inhaled:	Remove to fresh air.

5. FIRE FIGHTING MEASURES

Fire:	Not considered to be a fire hazard.
Explosion:	Not considered to be an explosion hazard.
Fire Extinguishing Media:	Use whatever media are suitable for extinguishing the surrounding fire.
Protective Clothing:	Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

All components are food grade and as such presents no significant environmental hazard. It is biodegradable and water soluble and can be hosed away or absorbed with dry sand or earth.

7. HANDLING AND STORAGE:

Handling:	When opening the container and using the product, wear appropriate protective clothing (see section 8 below) and handle in a well ventilated area.
Storage:	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Protect from physical damage. If Juggernaut is to be stored for longer than 12 months, it should be held under refrigeration at about 5°C.

8. EXPOSURE CONTROLS & PERSONAL PROTECTIVE EQUIPMENT

Exposure standards:	Not established.
Engineering controls:	Open container in the open air. If opening in an enclosed area, a system of local or



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Personal protection: general exhaust is recommended to keep employee exposure as low as possible. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemically-resistant rubber gloves, goggles, and a disposable mask. Avoid inhaling vapour. After each days use, wash gloves, goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green thick liquid with strong floral odour
 Boiling point/melting point: > 100°C
 Specific gravity: As for water
 Flashpoint (°C): Not applicable
 Auto ignition temperature: Not applicable
 Flammability limits (%): Not applicable
 Solubility in water: Soluble
 Other properties: Not applicable

10. STABILITY AND REACTIVITY

Stability: The product is stable at ambient temperatures.
 Conditions to avoid: Hot or sun-exposed conditions
 Material to avoid: Not applicable
 Decomposition products: Not applicable
 Polymerisation: No hazardous polymerisation is known to occur

11. TOXICOLOGICAL INFORMATION

Health Effects

Juggernaut consists of food grade flavours and fragrances is not expected to result in any adverse health effects if used and handled as directed on the product label and in this MSDS.

Chronic

No chronic toxicity studies are available.

12. ECOLOGICAL INFORMATION

Not toxic but concentrated doses in small bodies of water may cause eutrophication.

13. DISPOSAL CONSIDERATIONS

Disposal Information: Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to application equipment. DO NOT dispose of undiluted chemical on site. If recycling, replace cap and return containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Shipping Name: Not regulated
 Hazard Class: Not applicable
 UN Number: Not applicable

15. REGULATORY INFORMATION

APVMA Approval Number: N/A
 ERMA New Zealand Approval Code: N/A
 Juggernaut is a sprayable kairomone insect bait and does not contain insecticide. Juggernaut does not require registration with the Australian Pesticides and Veterinary Medicines Authority.

16. OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

END OF MSDS