



BIODALIA
Microbiological Technologies

Main Office: Rakuto Kasei House, 5 Carmel St. P.O. Box 528, New Industrial Park, Yokneam 20692, Israel Phone: +972 49090901 Fax: +972 4959 4077
Plant: Kibbutz Dalia, Phone: +972 4989 7234 Fax: +972 4989 7200 www.biodalia.com

SAFETY DATA SHEET LOSSQUITO / BACTUSH

Revision: 22/5/2020

1. IDENTIFICATION OF PRODUCT & COMPANY

Trade name	LOSSQUITO / BACTUSH
Chemical name	<i>Bacillus Thuringiensis</i> var. <i>Israelensis</i>
Recommended use	Microbial larvacides
Company	Bio Dalia Microbiological Technologies
Address	19239 Kibbutz Dalia, Israel
Phone	972-4-9897257/68
Fax	972-4-9897256

2. HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture

Category 1B: Sensitization –Skin

2.2 Labeling Elements Symbol(s)



Signal Word

WARNING

Hazard Statement(s)

H317 May cause an allergic skin reaction

2.3 Precautionary Statement:

P280 Wear protective gloves/protective clothing/eye protection/face protection

Prevention

Avoid breathing mist/spray

Contaminated work clothing must not be allowed out of the workplace

Response

IF ON SKIN: Wash with plenty of water

Wash contaminated clothing before reuse.

Disposal

P501 Dispose of contents/container to an approved waste disposal.

Safety

Avoid contact with skin

2.4 Other Hazards

None identified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Soluble (liquid) concentrate (SL)

Active ingredient: *Bacillus thuringiensis*



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var. Israelensis (serotype H-14), 1200 International Units (ITU) per milligram –	1.2% (Equivalent to 1.28 billion ITU/liter)
Preservatives –	0.4%
Inert ingredients –	6.8%
Water –	app. 91.6%
Total	100.0%
Dangerous ingredients:	None

4. FIRST AID

General	In all cases of doubt, or when symptoms persist, seek for medical advice.
Eye contact	Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek for medical advice if irritation persists.
Skin contact	Remove contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. Seek for medical advice if irritation develops. Wash clothes before reuse.
Inhalation	Not likely to occur.
Ingestion	Rinse mouth with water. Do not drink. Do not induce vomiting because of risk of aspiration. Seek for medical advice.
Advice to physician	For further advice call phone number: 972-4-8541900, Israeli poison Information center.

5. FIRE FIGHTING MEASURES

Extinguishing media	All extinguishing products are allowed; Not flammable (aqueous).
Unsuitable extinguishing media	None known.
Special exposure hazards	None known.
Protective equipment	No special equipment needed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with eyes and skin.
Personal protection	Wear safety goggles, gloves
Environmental precautions	None, safe for the environment
Method for cleaning up	Dispose of in accordance to local authority regulations

7. HANDLING AND STORAGE



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Handling	Avoid contact with skin and eyes.
Storage	Store in a cool dry area. Temperature should not be above 28°C for long shelf life. To maintain quality protect from frost and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits	No exposure limit has been established.
Personal protection:	Avoid contact with eyes and skin
Respiratory	No specific recommendations
Hand protection	Gloves
Eye protection	Safety goggles
Skin and body protection	Suitable clothing
NOAEL	5x10 ⁶ spores/animal

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid
Color	Light brown
Odor	Typical.
pH value	4.5 +/- 0.5
Melting point	NA
Boiling point	NA
Flash point	Not applicable (aqueous)
Solubility in water	100% Dispersion in cold water
Solubility in other solvents	not determined
Flammability	NA
Autoignition temperature	NA
Explosive properties	none
Explosion limit	NA
Oxidizing properties	none
Vapor pressure	as water
Density	Approx. 1020 g/l (20°C)
Bulk density	Not applicable

10. STABILITY AND REACTIVITY

Stability	No decomposition if stored and handled properly.
Conditions to avoid	Do not store above 28°C . Do not freeze . Do not expose to the sun .
Materials to avoid	Do not expose to oxygen, acids and bases.
Hazardous decomposition products	No typical hazardous decomposition products known.



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11. TOXICOLOGICAL INFORMATION

Name	LOSSQUITO / BACTUSH	
Active ingredient	Delta-endotoxin crystals and spores of <i>Bacillus thuringiensis var. israelensis</i> (Bti), (serotype H-14) (de Barjac 1978).	
Acute toxicity	Non-toxic, non-harmful effects on humans, domestic animals, wildlife, beneficial insects, fish and other aquatic life.	
Toxicity:		
Acute oral toxicity in rat (OECD 423)		>2000 mg/kg
Acute dermal toxicity in rat (OECD 402)		>2000 mg/kg
Acute inhalation toxicity in rat (OECD 403)		>1.27 mg/L air
Irritation:		
Acute dermal irritation in rabbit (OECD 404)		No classified
Acute eye irritation in rabbit (OECD 405)		No classified
Skin sensitization potential (OECD 429)		May cause an allergic skin reaction

12. ECOLOGICAL INFORMATION

Information	Readily biodegradable. Non toxic, non harmful effects on humans, domestic animals, wildlife, beneficial insects, fish and other aquatic life. Safe for the environment.
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13. DISPOSAL CONSIDERATIONS

Product	Pesticide disposal - may be disposed of on site or at an approved waste disposal facility.
Contaminated packaging	Dispose of according to local authority regulations. Possible alternatives include sanitary landfill, incineration if approved by the local authority, etc. Do not reuse container.

14. TRANSPORT INFORMATION

UN No	NA
ADR / RID	Not regulated
ICAO/IATA	Not regulated
IMDG	Not regulated
Other information	Protect material from direct sunlight. Containers



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must be stored in shade area. Temperature must be below 28°C.

15. REGULATORY INFORMATION

Product label name	LOSSQUITO
Registration	Registered in ISRAEL as 'BACTUSH' Registration no. 207 by the ministry of the environment, Israel. Certified for use in natural and artificial water bodies with low to high organic content.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guaranty for any specific product features and shall not establish a legally valid contractual relationship.

Approval date: 22 May 2020

Revision: 4.0

DISCLAIMER

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