

**MATERIAL SAFETY DATA SHEET**  
According to Regulation EC 1907/2006, Art. 31 (REACH)

**Product name :** **BIO KILL® EXTRA GT Ready-to-use**

**1. COMPANY ADDRESS & DATA**

Address: Jesmond Biocides (Europe) Ltd. UN no. 3082  
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**2. HAZARDS IDENTIFICATION**

Toxic to aquatic organisms.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

A microenpasulated emulsion water based product

<b>Hazardous ingredients</b>	<b>Content %</b>	<b>CAS No.</b>	<b>Symbol</b>	<b>R-Phrases</b>
Lambda-Cyhalothrin	0.07	91465-08-6	T+, N	R21; R25; R26; R50/53
Solvent naphtha (petroleum, heavy aromatics)	<0.10	64742-94-5	Xn, N	R51/53; R65; R66
1,2-Propylene glycol	<0.30	57-55-6		
Etoc	0.01	23031-36-9	T, N	R22; R23; R50/53

**4. FIRST-AID-MEASURES**

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

Skin contact: Wash skin immediately with water, followed by soap and water. Contaminated clothing should be laundered before re-issue.

Eye contact: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 5 minutes. Obtain medical attention as a precaution.

Ingestion: If swallowed seek medical advice immediately and show the bottle, label or this data sheet. Induce vomiting if large amounts are ingested.

Further medical treatment: Symptomatic treatment and supportive therapy as indicated.

**5. FIRE-FIGHTING MEASURES**

In case of fire keep fire-exposed containers cool by spraying with water. Avoid run-off water, for example, with earth barriers for entering watercourses.

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**6. ACCIDENTAL RELEASE MEASURES**

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**7. HANDLING & STORAGE**

**Handling**

Read the label before use. Avoid contact with skin and eyes. Do not breath spray. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

**Storage**

Keep in original bottles/containers, tightly closed, out of reach of children.  
Keep away from food, drink and animal feeding stuffs. Protect from frost.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

When using this product refer to the label for details.

**Components with workplace control parameters**

Components	CAS-No.	Control parameters
Lambda-Cyhalothrin	91465-08-6	50 g/m <sup>3</sup> / 10 ppm (8 h, TWA)
Propylene glycol	57-55-6	474 mg/m <sup>3</sup> / 150 ppm (TWA)
Solvent naphtha	64742-94-5	100 mg/m <sup>3</sup> / 15 ppm (8 h, TWA)

Mixed hydrocarbon solvents OES/HSE: 8 h TWA 500 mg/m<sup>3</sup>. Lambda-Cyhalothrin can be absorbed through skin.

**9. PHYSICAL & CHEMICAL PROPERTIES**

Form	:	liquid
Color	:	beige
Odor	:	odorless
pH-value	:	5.0 - 7.0
Boiling point (°C)	:	n.a.
Melting point (°C)	:	n.a.
Flash point (°C)	:	does not flash
Auto ignition temp (°C)	:	n.a.
Explosive properties	:	n.a.
Oxidising properties	:	n.a.
Vapor pressure (mmHg)	:	n.a.
Density (g/ml)	:	0.9987 +/- 0,012 g/ml
Solubility (water)	:	miscible
Partition coefficient	:	n.a.

**10. STABILITY & REACTIVITY**

Hazardous decomposition product(s):  
Combustion or thermal decomposition will evolve toxic and irritant vapors.

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**11. TOXICOLOGICAL INFORMATION**

Oral LD50 (rats) : > 5000 mg/kg (male and female)  
Dermal LD50 (rats) : > 5000 mg/kg (male and female)  
Inhalation LC50 (rats) : > 5000 mg/m<sup>3</sup> (male and female)  
Eye irritation (rabbits) : "non irritant"  
Skin irritation (rabbits) : "non irritant"  
Skin irritation (guinea pig): "non irritant"

**12. ECOLOGICAL INFORMATION**

Do not contaminate ponds, ditches, waterways or ground with the product or used containers.  
Do not allow entering drains and sewers.

**BIO KILL® EXTRA Ready-to-use** is not persistent in the environment. It is destroyed by soil microorganisms and does not leave residues in the environment or build up in food chains.  
**BIO KILL® EXTRA Ready-to-use** is degraded by UV-light.

Toxic to fish and other aquatic life.

**13. DISPOSAL CONSIDERATIONS**

Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty bottles should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

**14. TRANSPORT INFORMATION**

**Land transport (Road / Rail)**

Road (ADR) class	Class 9	UN no. 3082	Packing group III
Rail (RID) class	Class 9	Hazard identification no. 90	
	Substance identification no. 3082		
Proper shipping name	ENVIRONMENTAL HAZARD SUBSTANCE, LIQUID, N.O.S. (contains LAMBDA-CYHALOTHRIN IN SOLUTION)		

**Sea transport (IMDG / IMO)**

IMO / IMDG	Class 9	UN no. 3082	Packing group III
	EmS : F-A, S-F		
Marine pollutant	Yes		
Proper shipping name	ENVIRONMENTAL HAZARD SUBSTANCE, LIQUID, N.O.S. (contains LAMBDA-CYHALOTHRIN IN SOLUTION)		

**Air transport (ICAO / IATA)**

ICAO / IATA	Class 9	UN no. 3082	Packing group III
Proper shipping name	ENVIRONMENTAL HAZARD SUBSTANCE, LIQUID, N.O.S. (contains LAMBDA-CYHALOTHRIN IN SOLUTION)		

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**15. REGULATORY INFORMATION**

EEC Classification: Not classified as dangerous for supply/use. The safety phrases have been assigned by. Jesmond Holding AG. Users should ensure that comply with any relevant local, state or national legislation.

**16. OTHER INFORMATION**

Complete description of hazard symbols and R-Phrases according to single ingredients of Chapter 2.

**Hazardous Symbols**

Xn	Harmful
N	Dangerous for the environment
T	Toxic
T+	Very toxic

**R-Phrases**

R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

Use: to control insects in household, industrial use.

**BIO KILL® EXTRA Ready-to-use** is the property of JESMOND HOLDING AG.

Read the label before you buy – use the pesticide safely.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of neither the product nor where instructions or recommendations are not followed.