

**Bioway Multi**  
**MATERIAL SAFETY DATA SHEET**  
**Insect and Dust Mite Killer**

Issue date: 22 February 2024

**SECTION 1 – GENERAL INFORMATION**

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**SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Common Chemical Name/General Name	CAS #	Percent or Content (%)	% wt Water	Chemical Formula	Classification and Hazard Labelling
Permethrin Chemical Family (Pyrethroids)	N/A	% Volume mg per ml 2.25 g/l 2.25 mg/ml	97.5		SL Eye, skin, respiratory, ingestion, inhalation – Hazardous (NO)
Bioallethrin	N/A	0.45 g/l 0.45 mg/ml	97.5	Micro-emulsion	SL Eye, skin, respiratory, ingestion, inhalation – Hazardous (NO)

**SECTION 3 – HAZARD IDENTIFICATION**

Signs and Symptoms of Exposure	1.Acute Hazards	None
	2.Sub-chronic and Chronic Health Effects	None
Medical conditions generally aggravated by exposure	None	
Routes of Entry	Inhalation – None Ingestion - None	Eye Contact – None

**SECTION 4 – FIRST AID MEASURES**

Emergency and First Aid Procedures	
1. Inhalation	N/A
2. Eyes	Rinse with water
3. Skin	Wash with water
4. Ingestion	Drink water – Seek Medical practitioner

**SECTION 5 – FIREFIGHTING MEASURE - NONE**

NO FIREFIGHTING MEASURE NEEDED – NOT FLAMMABLE – WATER BASED

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Prevent aqueducts and sewerage systems contamination. Personal precautions: prevent skin contact.

**SECTION 7 – HANDLING AND STORAGE**

1. Handling	Use gloves – keep away from uninformed people
2. Storage	Cool and dry storage

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

1.	Keep out of reach from children and pets
2.	Skin protection: Not necessary under normal use. Use gloves when working in factory conditions. Rinse with water
3.	Eye protection: Not necessary. If in contact with eyes, rinse with water.
4.	Respiratory protection: Not necessary under normal use.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and odor	Colour : White, milky    Odor : Typical – no odor
Flash point (Celcius)	N/A
Melting point (Celcius)	N/A
pH	5.4 – 6.2
Relative density	Water – 1,01g/cm <sup>3</sup>
Boiling point (Celcius)	98% C - water
Flammability	Not flammable
Auto Flammability	N/A
Relative density (water = 1)	N/A
Relative Vapour density (air=1)	N/A
Vapour prssure (Kpa)	N/A
Heat of combustion (KJ/mol)	N/A
Auto-ignition temperature (Celcius)	N/A
Solubility	No synthetic solvents, mico-emulsion
Explosive properties	None
Oxidizing properties	None

**SECTION 10 – STABILITY AND REACTIVITY**

Stability	Product is stable under storage conditions described in Section 7
Incompatibilities	Low to no odor
Conditions to avoid	None – does not react with other chemicals
Hazardous decomposition	N/A

**SECTION 11 – TOXICOLOGICAL INFORMATION - RAT**

Prevent aqueducts and sewerage systems contamination. Personal precautions: prevent skin contact. Acute toxicity = Oral LD 50mg/kg. 20 000 / Dermal 20 000 / Inhallation 4009. Skin and eye contact : None. Chronic toxicity N/A. Mutagenicity N/A. Carcinogenicity N/A. Neurotoxicity N/A. Reproductive hazards N/A.

**SECTION 12 – ECOLOGICAL INFORMATION**

Aquatic toxicity - fish	Toxic
Aquatic toxicity - daphnia	Toxic
Aquatic toxicity - algae	Hazardous
Biodegradability	97%
Bio-accumulation	N/A
Water stability	96% Micro-Emulsified
Ozone layer depletion	No

**SECTION 13 – DISPOSAL CONSIDERATION**

Disposal methods	Do not spill into sewerage systems
Disposal of packaging	Do not use for any other purpose

## SECTION 14 – TRANSPORT INFORMATION

Regulation – 26-08-1986

UN no 3352 Permethrin 3082 Bioallethrin

G V Marine/IMDG – code. Not dangerous goods within the meaning of above transport regulations.

## SECTION 15 – REGULATORY INFORMATION

EU hazard classification	Class 4. F/T. EO
Risk phrases	None. N/A
Safety phrases	None. N/A
National legislation	L6988 RSA

## SECTION 16 – OTHER INFORMATION

Bioway Multi was awarded a green class IV (4) or U (unclassified). Less hazardous product. International status. No synthetic solvents used. Does not stain. Odourless. The information contained in this safety data sheet is based on the present state of knowledge and current legislation. This safety data sheet provides guidance on health, safety and environmental specifications of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. Bioway Multi makes no warranty of merchantability or any other warranty, expressed or implied, and assumes no liability resulting from the information. Users should make their own investigations to determine the suitability of the information for their particular purposes.