

# SAFETY DATA SHEET

## Katana Agriscience BioSuma M

### SECTION 1: IDENTIFICATION OF SUBSTANCE & SUPPLIER

Product Name:	BioSuma M: Microbial Biocontrol for Plants & Fruits
Synonyms:	various
Recommended Uses and restrictions on use:	Non-Toxic Pesticide for use on all types of plants & fruits
Company Identification:	KATANA AGRISCIENCE 1 IMATION WAY OAKDALE, MN 55128
Emergency Telephone Number:	319 529 2639

### SECTION 2: HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not a hazardous substance or mixture
<b>Signal Word</b>	No signal word
<b>Hazard statement(s)</b>	No known significant effects or critical hazards
<b>Symbol(s)</b>	NONE
<b>Precautionary Statements</b>	Do not use in eyes. In case of eye contact, flush thoroughly with water and seek medical attention. Stop use and ask doctor if irritation and redness develop and persists for more than 72 hours. Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

**Medical conditions generally aggravated by exposure:** Not known

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	% Weight
Water	>91.5%
Organic Plant Oils	< 3.0%
Proprietary Surfactants	<5.5%

#### SECTION 4: FIRST AID MEASURES

Primary routes of exposure	See section 9
<b>Eyes</b>	Hold eye open and flush with a steady, gentle stream of water for 15-20 minutes. If present remove contact lenses after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice if discomfort continues.
<b>Skin</b>	In the case of irritation, rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice if you feel ill or if irritation persists.
<b>Ingestion</b>	Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poisons control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Inhalation</b>	Product is not likely to be hazardous by inhalation. If respiratory irritation or distress occurs, move person to fresh air. If not breathing, give artificial respiration. Seek medical attention.

**Recommended first aid facilities:** Ready access to running water.

#### SECTION 5: FIRE FIGHTING MEASURES

<b>Fire and explosion hazards</b>	No applicable hazards are known to be associated with this product.
<b>Flashpoint</b>	Does not flash
<b>Hazards decomposition products</b>	N/A
<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Special firefighting procedures</b>	No special precautions required
<b>HAZCHEM code</b>	N/A

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear appropriate protective equipment (see section 8)
<b>Methods for Cleaning Up</b>	Soak up with an inert material such as sawdust or absorbent. For small spills, hose away with water. For large spills, transfer to suitable container for disposal.

#### SECTION 7: HANDLING & STORAGE

<b>Precautions for Safe Handling</b>	No approved handlers required; Avoid contact with eyes. Wear proper eye protection
<b>Storage</b>	Keep in a closed container when not in use. Store away from heat and direct sunlight. Recommended temperature is between 10°C and 40°C. Avoid freezing contents.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Workplace Exposure Standards:</b>	A workplace exposure standard (WES) has not been established for this substance.
<b>Engineering Controls:</b>	Ready access to running water and or eyewash stations - general ventilation
<b>Personal Protective Equipment:</b>	<b>Respiratory protection:</b> Not required <b>Eye/Face:</b> Safety glasses or goggles if splash hazards exist <b>Skin:</b> Not required

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance / Color</b>	Clear
<b>Odor</b>	ROSEMARY
<b>Odor Threshold</b>	Test not applicable for this product type
<b>pH</b>	5-9
<b>Physical State</b>	Liquid
<b>Melting Point / Freezing Point</b>	N/A / <0°C
<b>Boiling Point &amp; Boiling Range</b>	100°C
<b>Flash Point</b>	Does not flash
<b>Evaporation Rate</b>	Higher initially and declining as lighter components
<b>Flammability (solid, gas)</b>	Does not sustain combustion
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Solubility in water</b>	Complete
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity (at 68°F/20°C)</b>	<85.5mPas
<b>Specific gravity (at 68°F/20°C)</b>	1.0 g/ml

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	Material is not reactive
<b>Chemical Stability</b>	Under normal conditions this material is stable
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur
<b>Conditions to avoid</b>	Temperatures > 50°C; Freezing
<b>Incompatible materials to avoid</b>	Acids, alkalis, strong oxidizing agents, anionic surfactants
<b>Hazardous decomposition products</b>	None

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute oral toxicity</b>	LD <sub>50</sub> Rat (oral) > 5000 mg/kg
<b>Acute dermal toxicity</b>	LD <sub>50</sub> Rabbit (dermal) > 5000 mg/kg
<b>Inhalation toxicity</b>	N/A
<b>Acute eye irritation test</b>	Mild reversible eye irritant
<b>Acute dermal sensitivity</b>	Not a dermal sensitizer
<b>Likely routes of exposure</b>	Inhalation, skin contact and eye contact. Product is harmful if inhaled in large quantities
<b>Symptoms</b>	May cause mild, temporary eye and skin redness and/or irritation
<b>Delayed and immediate effects from short &amp; long term exposure</b>	May cause mild, temporary eye and skin redness and/or irritation.
<b>CMR toxicants</b>	Negative for CMR

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Acute toxicity</b>	Slightly harmful to the aquatic environment in large quantities
<b>Soil toxicity</b>	No data available
<b>Terrestrial vertebrate toxicity</b>	Non-toxic
<b>Terrestrial Invertebrate toxicity</b>	No data available

**Ecotoxicological effects:**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with requirements of the local government authority and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Restrictions</b>	There are no product specific restrictions
<b>Waste Disposal Method</b>	Waste resulting from the use of this product may be disposed of on site. If this waste cannot be disposed of by use according to the label instructions, contact your local Environmental Control Agency for guidance.
<b>Container (plastic) disposal</b>	Rinse (or equivalent), then offer for recycling or reconditioning, puncture and dispose of in a sanitary landfill, incineration, or by burning (if allowed by the state and local authorities). If burned, stay out of smoke.
<b>Section 13 notes</b>	Inactivation of solutions containing PLANT WASH may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of PLANT WASH solution.

### SECTION 14: TRANSPORT INFORMATION

IATA Proper Shipping Name	Non-flammable liquid
IATA UN Number	Not specified
Hazard Class	Not regulated
NFPNHMIS classification	Flammability 0, Reactivity 0, Health 1

### SECTION 15: REGULATORY INFORMATION

New Zealand	This product is an approved substance under the Hazardous Substances and New Organisms ACT (HSNO). The active components are listed on the New Zealand Inventory of Chemicals (NZIoC).
Group Standard	Cleaning Products (Subsidiary Hazard) Group Standard 2006
US Federal Regulations	TCSA (Toxic Substances Control Act) Status: All components of this product are listed or excluded from the TSCA inventory of chemical substances.

### SECTION 16: OTHER INFORMATION

Disclaimer: This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context on the intended use and determine whether they are appropriate.

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