

SAFETY DATA SHEET

Katana Agriscience BioSuma T

SECTION 1: IDENTIFICATION OF SUBSTANCE & SUPPLIER

Product Name:	BioSuma T: Insect 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

Hazard Classification	Not a hazardous substance or mixture
Signal Word	No signal word
Hazard statement(s)	No known significant effects or critical hazards
Symbol(s)	NONE
Precautionary Statements	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 Eyes	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.
Skin	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.
Ingestion	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.
Inhalation	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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment (see section 8)
Methods for Cleaning Up	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

Precautions for Safe Handling	No approved handlers required; Avoid contact with eyes. Wear proper eye protection
Storage	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

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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

Restrictions	There are no product specific restrictions
Waste Disposal Method	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.
Container (plastic) disposal	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.
Section 13 notes	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.

Date of issue: September 2019

Replaces: new

Review date: September 2021