

**AIKO SL**  
**MATERIAL SAFETY DATA SHEET**

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**SECTION-1**

**PRODUCT /COMPANY IDENTIFICATION**

Product Name	:	<b>AIKO SL</b>
Active Ingredient	:	Sophora flavescens 25% extract + 10,000 IU of BTA [Bacillus thuringiensis var. Aizawai]
Common Name	:	Sophora flavescens Plant Extract and Bacillus thuringiensis var. Aizawai
Type of Formulation	:	Soluble Liquid (SL)
Indented Use	:	Biological derived insecticides
Company/Supplier details	:	<b>SINERIA HOLLAND BV.</b> Randwycksingel 20-A015 6229 EE, Maastricht. The Netherlands <a href="http://www.sineria.com">www.sineria.com</a>

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**SECTION-2**

**COMPOSITION/ INFORMATION ON INGREDIENTS**

Active Ingredient	CAS No	Content
Bacillus thuringiensis var. Aizawai	68038-71-1	10,000 IU
Sophora flavescens Plant Extract	Not Applicable	25%

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**SECTION-3**

**HAZARD IDENTIFICATION**

Causes eye and skin irritation. Inhalation can cause irritation to the respiratory tract and can result in chemical pneumonitis if aspirated. Ingestion can result in central nervous system effects such as muscle tremors, decreased activity, ataxia (unsteadiness or incoordination), and dilated pupils (mydriasis).

**Precautionary Statements**

P102	:	Keep out of reach of children.
P260	:	Do not breathe mist, vapors
P270	:	Do not eat, drink or smoke when using this product.
P280	:	Wear protective gloves, protective clothing and eye and/or face protection.

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## SECTION-4

## FIRST AID MEASURES

- General Advice : In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
First aider: Pay attention to self-protection!.
- If ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
- If inhaled : If product is inhaled, remove person to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.
- If on skin : Remove contaminated clothing. Wash skin and hair thoroughly; do two soap and water washings.
- If in eyes : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Note to physicians : Treat symptomatically

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## SECTION-5

## FIRE FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Specific hazards arising : No specific hazard known.
- Firefighting Instructions : Fire fighters should wear full protective gear, including self-contained breathing apparatus. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire.
- In the event of fire, wear self-contained breathing apparatus.
- In the event of fire and/or explosion do not breathe fumes.

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## SECTION-6

## ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces.
- Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material

Environmental precautions	:	from entering drains or watercourses. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. Reposition any leaking containers so as to minimize leakage. Dam and absorb spill with an absorbent material (eg. sand or soil). Shovel the absorbed spill into drums
Methods and materials for containment and cleaning up	:	Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

## SECTION-7

## HANDLING AND STORAGE

Precautions for safe handling	:	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions.
Conditions for safe storage	:	Keep out of reach of children, unauthorized persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food.
Incompatibilities	:	Store out of direct sunlight and extreme temperature.

## SECTION-8

## EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls	:	Use only with adequate ventilation. Keep container tightly closed. Do not generate dust.
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### Personal protective equipment (PPE)

Respiratory protection	:	Use NIOSH/MSHA approved respirator appropriate for exposure of concern.
Hand protection	:	Protective gloves
Eye protection	:	Wear safety glasses with side shields. Additionally, wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Skin and body protection	:	Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

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**SECTION-9****PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Yellow to brown liquid
Odor	:	Aromatic
pH	:	4-9
Flash Point	:	>54°C
Explosive Properties	:	Non-Explosive
Oxidizing properties	:	Not oxidizing
Stability	:	Stable under normal temperature and pressure

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**SECTION-10****STABILITY & REACTIVITY**

Possibility of Hazardous Reactions	:	No dangerous reaction known under conditions of normal use and storage conditions.
Chemical Stability	:	This product is chemically stable under recommended conditions of storage, use and temperature.
Conditions to Avoid	:	Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.
Incompatible materials	:	Strong acids, strong bases, strong oxidizing agents.
Polymerization	:	This product will not undergo polymerization reactions.

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**SECTION-11****TOXICOLOGICAL INFORMATION**

Acute oral LD <sub>50</sub> , mg/kg rats	:	>5000
Acute dermal LD <sub>50</sub> , mg/kg rabbits	:	>5000
Skin Irritation (rabbits)	:	Not an irritant
Eye Irritation (rabbits)	:	Not an irritant
Skin Sensitization (guinea pigs)	:	Not a sensitizer

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**SECTION-12****ECO-TOXICOLOGICAL INFORMATION**

Acute oral LD <sub>50</sub> for Mallard duck	:	>4550 mg/kg
Rainbow trout LC <sub>50</sub> , (96h)	:	>3.20 mg/L
Daphnia LC <sub>50</sub> (48h)	:	>1.8 mg/L
Bees (LD <sub>50</sub> , µg/bee)	:	> Non-Toxic
Worms (LC <sub>50</sub> , for Eisenia fetida)	:	> Non-Toxic

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## SECTION-13

## DISPOSAL CONSIDERATIONS

- Waste from residues/unused products : Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated packaging : Improper disposal or reuse of this container may be dangerous and illegal.

## SECTION-14

## TRANSPORT INFORMATION

- General Transport Information : It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
- UN Number : Not regulated for Dangerous Good

## SECTION-15

## REGULATORY INFORMATION

- P102 : Keep out of reach of children.
- P201 : Keep away from heat, sparks, open flames. - No smoking
- P260 : Do not breathe mist, vapors
- P270 : Do not eat, drink or smoke when using this product.
- P280 : Wear protective gloves, protective clothing and eye and/or face protection.

## SECTION-16

## OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

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