





# MATERIAL SAFTEY DATA SHEET

# **Acimic Super SC**

#### **IDENTIFICATION OF THE SUPPLIER:**

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#### PRODUCT IDENTIFICATION:

Common Name: Abamectin 8% w/v

Trade Name: Acimic Super SC

**Uses category:** Insecticide / Acaricide

Type of formulation: Suspension Concentrate (SC)

**Chemical Name:** 5-O-demethylavermectin A1a (i) mixture with 5-O-demethyl-25-de (1-methylpropyl)-25-(1-methylethyl) avermectin A1a (ii) **Chemical Formula:**  $C_{48}H_{72}O_{14}$  (avermectin B1a);  $C_{47}H_{70}O_{14}$  (avermectin B1b)

Molecular Weight: 873.1 (avermectin B1a); 859.1 (avermectin B1b)

### **PRODUCT COMPOSITION:**

 Active Ingrédient :
 CAS #
 % w/v

 Abamectin
 [71751-41-2]
 8.4%

**Inert ingrédient:** 

Suspension & dispersing agent

Solvent (Water) Up to 100%







#### **HAZARDS IDENTIFICATION:**

#### **Health and environmental**

Fatal if inhaled. Harmful if swallowed. May be harmful in contact with skin. Irritating to eyes, respiratory tract and skin.

## **Hazardous Decomposition Products**

None known.

#### **Physical Properties**

Appearance: white to beige liquid Odor: characteristic odor

#### **Unusual Fire, Explosion and Reactivity Hazards**

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### FIRST-AID MEAUSRES:

**Ingestion:** Call a poison control center or doctor immediately for treatment

advice. Have a person sip a glass of water if able to swallow. Don't induce vomiting unless told to do so after calling a poison control center or doctor. Don't give anything by mouth to an

unconscious person.

**Eye contact:** Hold eye open and rainse slowly and gently with water 15 - 20

minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with

plenty of water for 15 – 20 minutes. Call a poison control center

or doctor for treatment advice.

**Inhalation:** Move person to fresh air. If person is not breathing, call a

ambulance, then give artificial respiration, preferably mouth –to – mouth if possible. Call a poison control center or a doctor for

further treatment advice.

**Note to** Early signs of intoxication include dilation of pupils, muscular

**physician:** incoordination and muscular tremors. Toxicity following

accidental ingestion of abamectin can be minimized by early







administration of chemical adsorbents (e.g. activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is propably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

## FIRE-FIGHTING MEASURES: -

#### **Fire and Explosion**

Flash point: Not applicable

Flammable Limits (% in air): Lower: Not applicable

Upper: Not applicable

Autoignition Temperature: 851° F

Flammability: Not applicable

## **Unusual Fire, Explosion and Reactivity Hazards**

During a fire, irritating and possible toxic gases may be generated by thermal decomposition or combustion.

## In case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use o contaminated building, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.







#### **ACCIDENTAL RELEASE MEASURE:**

#### In case of spill or leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as tide, Joy, Spic and span) pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up placed in a disposal container, seal container and arrange for disposition.

## PERSONAL PROTECTION/SAFTETY:

The following recommendations for exposure control/ personal protection are intended for the manufacture, formulation and packing of this product. For commercial applications and/ or on-farm applications consult the product label.

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application

in areas where there is a potential for exposure to the material.

Wash thoroughly with soap and water after handling.

**Eye Contact:** Where eye contact is likely, use chemical splash goggles.

**Skin Contact:** Where contact is likely, wear chemical-resistant gloves (such as

barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or viton),

coveralls, socks and chemical-resistant footwear.

**Inhalation:** A particulate filter respirator may be necessary until effective

engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE

filter.

Use a self- contained breathing apparatus in cases of emergency

spills, when exposure levels are unknown, or under any

circumstances where air-purifying respirators may not provide

adequate protection.







## **HANDLING AND STORAGE:**

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Don't store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

### STABILITY AND REACTIVITY:

**Stability:** Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.
Condition to avoid: None known
Materials to avoid: None known
Hazardous Decomposition None known

**Products:** 

#### PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** white to beige liquid **Odor:** characteristic odor

**PH:** 5 - 7

Density: 1.05g/ml ± 0.05
Flammability: Non flammable
Explosivity: non explosive
Corrosivity: Not corrosive







#### **TOXICOLOGICAL INFORMATION:**

## **Acute toxicity/ Irritation Studies (Finished Product):**

Ingestion:	Oral (LD50 Female Rat):	310 mg/ kg body weight
Dermal:	Dermal (LD50 Rat):	> 2000 mg/ kg body weight
Inhalation:	Inhalation (LC50 Rat):	0.054 – 0.53 mg/L air – 4 hrs
Eye contact:	Minimally irritating (Rabbit)	
Skin contact:	Slight Irritating (Rabbit)	
Skin sensitization:	Not a sensitizer (Guinea Pig)	

## Reproductive / Developmental Effects:

Abamectin: Reproductive toxin in animal studies only at doses acutely toxic

to the animal.

**Chronic / subchronic Toxicity Studies:** 

Abamectin: Central nervous system effects in animals.

**Carcinogenicity:** 

Abamectin: None observed.

#### **ECOLOGICAL INFORMATION: -**

## **Ecotoxicity Effects:**

#### **Abamectin:**

Fish (Rainbow Trout) 96-hour LC50 3.6 ppb Bird (Bobwhite Quail) LD50 oral > 2000 mg/ kg Invertebrate (Water Flea) 48- hour EC 50 0.34 ppb Green Algae 9-day EC50 > 100 ppm Bee (contact) 48- hour LD50 0.41 ug/ bee

#### **Environmental Fate:**

#### Abamectin:

Low bioaccumulation potential. Not persistent in soil. Stable in water. Low mobility in soil. Mixes in water (after 24 h).







#### **DISPOSAL CONSIDERATIONS:**

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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