

Material Safety Data Sheet

Product Name: Abamectin TC

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Abamectin TC

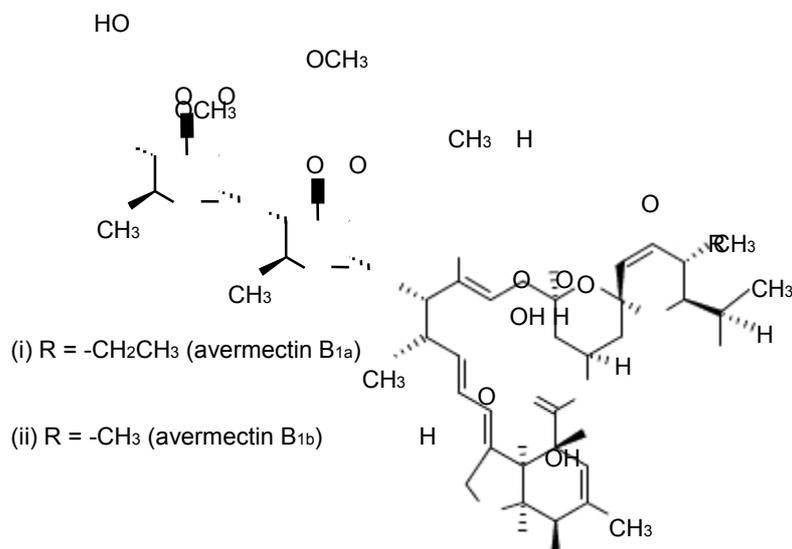
CAS: 71751-41-2

Molecular Weight: 873.1 (avermectin B1a); 860.1(avermectin B1b)

Chemical Name: 5-O-demethylavermectin A1a(i) mixture with 5-O-demethyl-25-de
((1-methylpropyl)-25-(1-methylethyl)avermectin A1a (ii)

Chemical Formulation: C48H72O14 (avermectin B1a);C47H70O14(avermectin B1b)

Chemical Structure:



Uses: Control of motile stages of mites, leaf miners, suckers, Colorado beetles, etc. on ornamentals, cotton, citrus fruit, pome fruit, nut crops, vegetables, potatoes, and other crops.

Manufacturer: Changzhou Good-Job Biochemical Co., Ltd
XinBei District, Changzhou, Jiangsu, China

Address:

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average by Weight</u>
Abamectin	71751-41-2	95%

SECTION 3. HAZARDS IDENTIFICATION

Eye Contact:	Causes eye and skin irritation.
Skin Contact:	Abamectin is not readily absorbed through the skin. It is however mildly irritating to the skin. It does not cause allergic reaction to the skin.
Inhalation:	Harmful by inhalation and may be irritating to the respiratory system.
Swallowing:	Harmful if swallowed.

SECTION 4. FIRST AID MEASURES

Eye Contact:	If in eyes: Hold eye open and rinse slowly and gently with water for 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:	If on skin or clothing: 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:	If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center.
Swallowing:	If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Fire Fighting Instructions:	Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes products of combustion. Prevent use of contaminated buildings, area, and
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equipment until decontaminated. Water can cause environmental damage. If water is used to fight fire, dike and collect runoff.

Extinguish Media:

Extinguish fires with water, carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid high-pressure hose, which may spread the product from the broken containers. This will increase the contamination hazard.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Safety:

Avoid contact with skin and eyes. Do not breathe in fumes. For personal protection see Section 8.

Clean-up Procedure:

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. Cover entire spill with dust-binding 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 and placed in a disposal container, seal.

SECTION 7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, prolonged contact with skin, and inhalation of dust and mist.

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.

Storage:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Store this product away from heat, sparks and other sources of ignitions.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

It is essential to provide adequate ventilation. Ensure that

control systems are properly designed and maintained. Only spark-resistant equipment should be used. Comply with occupational safety, environmental, fire and other applicable regulations.

Personal Protection:

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.

Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

A combination particulate/ organic vapor respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an HE prefilter. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder
Content:	95%
Flammability:	Non-flammable
PH:	7.2(room temperature)
Relative Density:	1.18 (22°C)
Storage Stability:	Stable for 2 years under normal storage.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable to hydrolysis in aqueous solutions at pH 5, 7, and 9 (25 °C). Sensitive to stronger acid and base. U.V. irradiation causes conversion first to the 8,9-Z- isomer, then to unidentified decomposition products.

Incompatibility: Not compatible with captan.

Hazardous Decomposition: Toxic materials are formed during exposure to high temperatures (may include but not limited to carbon monoxide, and carbon dioxide).

SECTION 11. TOXICOLOGICAL INFORMATION

Oral: Acute oral LD50 for rats :10 mg/kg
Dermal: Acute dermal LD50 for rabbits:>2000mg/kg
Inhalation: Acute inhalation LC50 for rats:5000mg/kg
Other Effects: Non-carcinogenic
 Non-mutagenic
 Teratogenic
 Cause reproductive effects at high enough doses.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: LC50 for Trout :0.0036ppm
 LC50 for Bluegill :0.0096ppm
 LC50 for Water flea:0.00037ppm
Terrestrial Toxicity: LC50 (8d) dietary for Bobwhite Quail:3102ppm
 LC50 (8d) dietary for Mallard Duck:383ppm
 LC50 for bees:0.002ug/bee
Environmental Fate: Binds tightly to soil, with rapid degradation by soil micro-organisms. No bioaccumulation.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal: Contaminate absorbents, used containers, surplus product, should be burnt at>1000°C in an incinerator, preferably designed for pesticide disposal, or buried in an approved landfill. Small quantities can be sprayed onto crops. Hydrolysis using caustic solution is a suitable method to dispose of small quantities of the product. After hydrolysis, dilute and dispose of in pits or landfill. Comply with local legislation applying to waste disposal.

Container Disposal: Emptied containers retain product residues. Do not reuse product containers. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. Combustible containers should be disposed of in pesticide incinerators or buried in an approved landfill. Non-combustible containers

must first be triple-rinsed with water. Container that are not to be used should be punctured and transported to a scrap metal facility for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Substant name: PESTICIDES, SOLID, TOXIC, N.O.S. (ABAMECTIN)
UN: 2588,
PG: II
Class: 6.1
Marine Pollutant: Yes

SECTION 15. REGULATORY INFORMATION

Symbol: Xn
Indication of dangerous: Harmful
R10: Flammable
R20/21/22: Harmful by inhalation, in contact with skin and swallowed
R36/38: Irritation to eyes and skin
S2: Keep out the reach of children
S36/37: Wear suitable protective clothing and gloves.

SECTION 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct.

However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.