

# Chemical Safety Data Sheet

## SECTION 1 IDENTIFICATION

**Product Name:** ABAMECTIN.

**Other Name:** /.

**Product use:** Insecticide.

**Supplier's name:** Shijiazhuang Xingbai Bioengineering Co.,Ltd.

**Supplier's address:** Nanbaishe Village, Zhao County, Shijiazhuang City.

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Acute Toxicity (oral) Category 2, Reproductive toxicants Category 2, Reproductive toxicants (effects on or via lactation), Specific target organ toxicity, repeated organ toxicity, repeated exposure: Category 1 (affected organs: nervous system, affecting ways: oral), Hazardous to the aquatic environment (acute) Category 1, Hazardous to the aquatic environment (long-term) Category 1.

### GHS Label elements, including precautionary statements



**Signal word:** Danger.

**Hazard statement(s):** Fatal in contact with skin. Toxic if swallowed or if inhaled. Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children. Cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s):

**Prevention:** Obtain special instructions before use. Do not handle until all safety precaution have been read and understand. Keep container tightly closed. Avoid breathing dust/fume/gas/mist/vapours/ spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective/clothing/ eye protection/face protection.

**Response:** IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER /doctor.

If exposed or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Collect spillage.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container to in accordance with national regulations.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Abamectin	71751-41-2	97%

## SECTION 4 FIRST AID MEASURES

### Description of necessary first aid measures

**If inhaled:** If breathed in, move person into fresh air. Keep respiratory tract unobstructed. If difficulty in breathing, give oxygen. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. Wash contaminated clothing before re-use.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** If victim is fully conscious, give 2-3 glasses of water to dilute, and get immediate medical attention. Induce vomiting as directed by a physician. Never give anything by mouth or induce vomiting in a person who is unconscious or convulsing.

**Most important symptoms and effects, both acute and delayed: /**

**Indication of immediate medical attention and special treatment needed:** Toxicity following accidental ingestion of the product can be minimized by inducing vomiting within one half hour of exposure. If toxicity 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) 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 probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure. There is no specific antidote.

## SECTION 5 FIREFIGHTING MEASURES

**Suitable extinguishing media:** Alcohol-resistant foam, dry chemical powder, carbon dioxide, sand.

**Special hazards arising from the chemical: /**

**Hazardous combustion products:** carbon monoxide, carbon dioxide, nitrogen oxides.

**Special protective actions for fire-fighters:** Firefighters should wear self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel. Discharges to the environment are to be controlled as quickly as possible to avoid contamination. Prevent use of buildings, area and equipment until properly decontaminated.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and gas mask. Wear breathing apparatus plus protective gloves.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Evacuate personnel to safe areas, and in isolation, restricted access. Emergency response personnel wear self-priming filter type gas mask (comprehensive cover), wear protective clothing. Don't direct contact with the leakage. MINOR SPILLS: Avoid dust formation, collect leakage with clean shovel into dry, clean covered container for recycling. MAJOR SPILLS: Cover with plastic or canvas, recycling or collection shipped to the waste treatment plant. Do not allow spilled material to contaminate water supplies. On soils, skin of the upper contaminated layer and collect for disposal.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:** Operators must receive special training, strictly abide by the operation procedures. Suggest operators wear self-priming filter type gas mask, eye protection, protective clothing,

rubber gloves. Avoid contact with eyes, skin and clothing. After work, rinse gloves and remove protective equipment, and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled product immediately, and clean clothes and equipment after use. Wash contaminated clothing before re-use. Keep product, spray, wash or rinse water, and contaminated materials out of water, and away from access by people and animals. Keep containers closed when not in use. Do not re-enter treated areas until residues have dried. Provide appropriate fire equipment.

**Conditions for safe storage, including any incompatibilities:** Store in cool, dry, well ventilated place. Keep away from sparks, heat source and direct sunlight. Keep container tightly closed. Handling gently. Store away from oxidant, acids and edible chemicals etc. Storage area should be equipped with emergency treatment equipment and suitable collecting container for spill.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:** /

**Appropriate engineering controls:** Ensure work areas have adequate ventilation. Keep this material out of water. Provide safety showers and eyewash station near workplace.

**Personal protective equipment :**

**Eye/face protection:** Safety glasses with side shields and gas mask.

**Hand protection:** Wear chemical protective gloves.

**Skin and body protection:** Wear safety footwear or safety gumboots. Impervious clothing.

**Respiratory protection:** Possible exposure to vapors should wear self-priming filter type gas mask.

Emergency rescue or evacuation, it is recommended to wear air respirators.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White
<b>Odour</b>	
<b>Odour Threshold</b>	
<b>PH</b>	
<b>Melting point</b>	
<b>Initial boiling point</b>	150-155°C
<b>Flash point</b>	
<b>Evaporation rate</b>	
<b>Flammability (solid, gas)</b>	
<b>Upper/lower flammability or explosive limits</b>	
<b>Vapour pressure</b>	
<b>Vapour density</b>	
<b>Relative density</b>	
<b>Water solubility</b>	Solubility(21°C):7.8µg/L(in water), 100g/L(in acetone),350g/L(in toluene)
<b>Partition coefficient: noctanol/water</b>	
<b>Auto-ignition temperature</b>	
<b>Decomposition temperature</b>	
<b>Viscosity</b>	

## SECTION 10 STABILITY AND REACTIVITY

**Re activity:** /

**chemical stability:** Stable at room temperature under normal pressure.

**Possibility of hazardous reactions:** /

**Conditions to avoid:** Open flames, hot.

**Incompatible materials:** Strong acids, strong alkalis.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute health effects:** /

**Chronic health effects:** /

**Numerical measures of toxicity (such as acute toxicity estimates):** LD50: 106 mg/kg (oral-Rat),

LC50: 1100 mg/m<sup>3</sup>/4H (inhalation-Rat), LD50: >2000 mg/kg (dermal-Rabbit)。

## SECTION 12 ECOLOGICAL INFORMATION

LC50(96h): 3.2 μg/L (Rainbow trout), 9.6 μg/L (bluegill), 1.6 ppb (pink shrimp), 153 ppb (blue crab).

Abamectin is toxic to aquatic organisms and wildlife. It does not bioconcentrate in fish. It is toxic to bees.

Abamectin photo degrades rapidly in the environment and is metabolized in the soil. Its water solubility is limited; it binds to soil tightly and is not taken up from soil to plants.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Do not reuse containers. In accordance with the local environmental protection department under the disposal of the product containers, waste packaging and residues. Consult a professional waste disposal company proposal. Decontaminate empty containers.

## SECTION 14 TRANSPORT INFORMATION

**UN number:** UN2588.

**UN proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S.

**Transport hazard class(es):** 6.1.

**Packaging group:** II.

**Marine Pollutant (Yes / No):** Yes.

**Special precautions for user:** /

## SECTION 15 REGULATORY INFORMATION

**Regulations:** All users must comply with the regulations or standards about safety production, use, storage, transportation, loading and unloading of hazardous chemical in our country.

## SECTION 16 OTHER INFORMATION

**Other information:** The SDS is prepared according to the requirement of Globally Harmonized System of classification and labeling of chemicals (GHS) (Rev. 5, 2013 Edition) and GB/T 16483-2008. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however, arising from using the above information. The data of the SDS is only for reference, not representative of the specifications of the products.