

# SAFETY DATA SHEET

## ABBA® CS

### 1. IDENTIFICATION

Product name: **ABBA® CS**  
Product type: Miticide/insecticide  
EPA Registration No.: 53883-294  
Chemical name of active ingredient(s): Abamectin: Mixture of avermectins comprising mainly Avermectin B1a  
Manufacturer/Registrant: Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507  
Phone: 1-800-424-9300  
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-866-897-8050  
For medical emergencies and health and safety inquiries, contact SafetyCall®: Phone: 1-800-222-1222  
Poison Control Center

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

#### Acute Toxicity:

Exposure Route	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	4	NC	NC	2B	NC	1

NC: Not classified

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS:

- Harmful if swallowed
- Cause eye irritation
- May cause an allergic skin reaction

#### PICTOGRAMS:



#### PRECAUTIONARY STATEMENTS:

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Call a poison center if you feel unwell. Rinse mouth. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice. Avoid breathing mist, vapors or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. If on skin: wash with plenty of water. If skin irritation or rash occurs: get medical advice. Wash contaminated clothing before reuse.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

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### 3. HAZARDS IDENTIFICATIONS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Abamectin	65195-56-4 65195-55-3	1.9	NE	NE	NE	NA
BHT (Butylated hydroxytoluene)	128-37-0	2	10 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	NE	IARC Group 3*
Aromatic hydrocarbon solvent containing:	64742-94-5		NE	NE	NA	NA
Naphthalene	91-20-3	< 0.1	10 ppm 50 mg/m <sup>3</sup>	10 ppm 52 mg/m <sup>3</sup>	15 ppm 75 mg/m <sup>3</sup> (STEL)	NTP – 2** IARC –2B***

\*IARC Group 3 - The agent (mixture or exposure circumstance) is unclassifiable as to carcinogenicity to humans.

NE: Not established; NA: Not applicable.

\*\* Substances, which may reasonably be anticipated to be carcinogens.

\*\*\* IARC Group 2B: Substance is possibly carcinogenic to humans.

### 4. FIRST AID MEASURES

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person drink a glass of water or two if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of soap and water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice if irritation persists.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® for emergency medical treatment information.</p>	
<p><b>Note to physician:</b> Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Early signs of intoxication include mydriasis (dilate pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of the CSI ABAMECTIN 1.9CS and can be minimized by promptly administering 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 parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and 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 probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.</p>	

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### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** >212° F (100°C)

**FLAMMABLE LIMITS: LFL/UFL:** Not applicable

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Thermal decomposition products may include, but are not limited to, carbon monoxide and carbon dioxide. This product is a NFPA class IIIB Liquid.

**FIRE-FIGHTING PROCEDURES:** Use positive-pressure, self-contained breathing apparatus and full protective clothing. Evacuate non-essential personnel from area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Clean up small spills immediately, use proper personal protection. Absorb spill with absorbent material such as pet litter. After removal, flush contaminated area thoroughly with water containing a strong detergent. Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Keep spills out of streams and domestic water supplies. Dike to prevent contamination of local water sources. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. Dispose of all waste and rinsate in the appropriate manner.

### 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Keep container closed when not in use. Handle and open container in a manner as to prevent spillage. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Do not reuse empty container.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store in a tightly closed container in a cool, dry place. Do not contaminate water, food or feed by storage or disposal.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**SKIN PROTECTION:** Coveralls over long- or short-sleeved shirt and long or shot pants, chemical-resistant footwear plus socks and head covering (for overhead exposure). Chemical-resistant apron when cleaning equipment, mixing or loading.

**HAND PROTECTION:** Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥14 mils.

**EYE PROTECTION:** Protective eyewear (e.g., goggles or full-face shield).

**RESPIRATOR REQUIREMENTS:** In areas with inadequate ventilation a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus may be required when working with this product.

**ADDITIONAL PROTECTIVE MEASURES:** Discarded clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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### USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Refer to product label.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Brown liquid

**ODOR:** Sweetish

**FLASH POINT:** >212°F (100°C)

**pH:** 6.7

**SOLUBILITY IN H<sub>2</sub>O:** Miscible

**SPECIFIC GRAVITY:** 1.049 g/cm<sup>3</sup>

### 10. STABILITY AND REACTIVITY

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

**MATERIALS TO AVOID:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INSTABILITY CONDITIONS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products may include, but are not limited to, carbon monoxide and carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD<sub>50</sub> (Rat): 500 mg/kg (females)

Acute Dermal LD<sub>50</sub> (Rat): > 2,000 mg/kg

Acute Inhalation LC<sub>50</sub> (Rat): > 5.6 mg/L

Eye Irritation (Rabbit): Moderately irritating.

Dermal Irritation (Rabbit): Non-irritating.

Dermal Sensitization (Guinea Pig): A skin sensitizer

#### REPRODUCTIVE/DEVELOPMENTAL EFFECTS:

Abamectin: Reproductive toxin in animal studies only at doses actually toxic to the maternal animal.

#### CHRONIC/SUBCHRONIC TOXICITY STUDIES:

Abamectin: Central nervous system effects in animals.

#### CARCINOGENICITY:

Abamectin: Not observed.

#### TOXICITY OF OTHER COMPONENTS:

Butylated Hydroxytoluene (BHT): Listed as an IARC (Group 3) carcinogen not classifiable as human (no data available) with limited animal evidence. Exposure may result in irritation to eyes, skin and respiratory tract. Ingestion may cause diarrhea, respiratory depression, tremors, and chronic pulmonary edema or congestion and hemorrhage.

#### TARGET ORGANS:

Abamectin: Skin, eye, CNS

Butylated Hydroxytoluene (BHT): Eye, skin, respiratory tract

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### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

**ECOLOGICAL EFFECTS:** (Abamectin)

*Rainbow Trout* 96-hour LC<sub>50</sub>: 4.3 µg/L

*Bluegill* LC<sub>50</sub>: 9.6 µg/L

*Daphnia magna* 48-hour LC<sub>50</sub>: 0.47 µg/L

*Bobwhite Quail* LC<sub>50</sub>/EC<sub>50</sub> 8-day dietary: 3,102 ppm

*Mallard Duck* EC<sub>50</sub>/EC<sub>50</sub> 8-day dietary: 383 ppm

**ENVIRONMENTAL FATE:** (Abamectin)

The information presented here is for the active ingredient, abamectin. Low bioaccumulation potential. Not persistent in soil. Stable in water. Low mobility in soil. Mixes in water (after 24 h).

### 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

**PRODUCT DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

### 14. TRANSPORT INFORMATION

**Ground Domestic (DOT)**

Not Regulated.

**Vessel (IMDG):** UN3082, Environmentally hazardous substance, liquid, n.o.s. (abamectin), 9, PG III, Marine pollutant

**Air (IATA):** UN3082, Environmentally hazardous substance, liquid, n.o.s. (abamectin), 9, PG III

### 15. REGULATORY INFORMATION

**FIFRA INFORMATION:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**WARNING** May be fatal if swallowed. Causes moderate eye injury. Harmful if absorbed thru skin. Do not get in eyes. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic

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reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

### SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.  
Section 311/312: Acute health hazard (immediate)  
Delayed health hazard (chronic)  
Section 313: Abamectin (1.9%) CAS#: 71751-41-2  
Naphthalene (<0.1%) CAS #: 91-20-3

**CA PROPOSITION 65:** Not applicable

**CERCLA RQ:** Naphthalene: 100 lbs.

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

### 16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	2	2	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

**MSDS DATE:** 12-28-2012. Supersedes version dated 6-20-2011. Changes made to all sections.

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty of any kind, expressed or implied, is made with respect to the information contained herein.