

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Avesta CS

**Other means of identification**

**SDS number** 535

**Recommended use** Pyrethroid type insecticide/miticide.

**Recommended restrictions** Keep out of the Reach of Children!

**EPA Registration number** EPA: 74530-53-5481

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** AMVAC Chemical Corporation

**Address** 4100 E Washington Blvd  
Los Angeles, CA 90023 USA

**Telephone** AMVAC Chemical Corp 323-264-3910  
AMVAC Chemical Corp 323-268-1028 (FAX)

**Website** www.Amvac-Chemical.com

**E-mail** CustServ@Amvac-Chemical.com

**Emergency phone number** Medical 888-681-4261  
CHEMTREC® (USA+Canada) 800-424-9300  
Product Use 888-462-6822  
CHEMTREC® (Outside USA) +1-703-527-3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** Not available.

**Precautionary statement**

**Prevention** Wear protective gloves and eye/face protection.

**Response** 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/attention.  
IF ON SKIN: Wash with plenty of soap and water.

**Storage** Not available.

**Disposal** Not available.

**Hazard(s) not otherwise classified (HNOC)** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Supplemental information** May cause mild eye irritation.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Lambda-Cyhalothrin		68085-85-8	9.7
ACETOPHENONE		98-86-2	4

## 4. First-aid measures

<b>Inhalation</b>	Move 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 CENTER or doctor/physician for further treatment advice.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center for treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do not give any liquid to the person. Do not induce vomiting without advice from poison control center.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	The product itself does not burn. Use extinguishing agent suitable for type of surrounding fire.
<b>Unsuitable extinguishing media</b>	Not applicable, non-combustible.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	This is a water base non-flammable liquid that will support fire only if the solvent is evaporated off first.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation.
<b>Methods and materials for containment and cleaning up</b>	Dike the spilled material. Absorb spill with vermiculite or other inert material. Shovel, sweep or vacuum up spillage and collect in suitable container for disposal.
<b>Environmental precautions</b>	Collect and dispose of spillage as indicated in section 13 of the SDS. Do not discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing mist or vapor.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local/regional/national/international regulation. Store in a tightly closed container. Store in cool, dry place. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Do not store near food, feed, fertilizers, seeds, insecticides or fungicides. Do not allow material to freeze.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Lambda-Cyhalothrin (CAS 68085-85-8)	PEL	5 mg/m <sup>3</sup>

**US. ACGIH Threshold Limit Values**

Components	Type	Value
ACETOPHENONE (CAS 98-86-2)	TWA	10 ppm
Lambda-Cyhalothrin (CAS 68085-85-8)	TWA	5 mg/m <sup>3</sup>

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Lambda-Cyhalothrin (CAS 68085-85-8)	TWA	5 mg/m <sup>3</sup>

**US. Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
ACETOPHENONE (CAS 98-86-2)	TWA	50 mg/m <sup>3</sup> 10 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Not available.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight fitting chemical goggles are recommended.

**Skin protection**

**Hand protection** Chemical resistant gloves.

**Other** Long-sleeved shirt and long pants or coveralls, socks and closed toe shoes are required.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.: Chemical respirator with organic vapor cartridge.

**Thermal hazards** Not available.

**9. Physical and chemical properties****Appearance**

**Physical state** Liquid.  
**Form** Encapsulated suspension.  
**Color** Off-white

**Odor** Pungent

**Odor threshold** Not available.

**pH** 4.17

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** 1.01

**Solubility(ies)**

**Solubility (water)** Miscible

<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions and storage conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Not available.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	Not a skin irritant or skin sensitizer.
<b>Eye contact</b>	Not an eye irritant
<b>Ingestion</b>	None known.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	None known.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Avesta CS		
<b>Acute</b>		
<b>Dermal</b>		
<i>Liquid</i>		
LD50	Rat	> 5000 mg/kg
<b>Inhalation</b>		
<i>Liquid</i>		
LC50	Rat	> 2.23 mg/l, 4 h
<b>Oral</b>		
<i>Liquid</i>		
LD50	Rat	> 5000 mg/kg

**Skin corrosion/irritation** Non irritating to skin.

**Serious eye damage/eye irritation** Non-irritating

#### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	None known.
<b>Skin sensitization</b>	Not a sensitizer.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	No specific target organ toxicity is expected after single exposure.
<b>Specific target organ toxicity - repeated exposure</b>	No specific target organ toxicity is expected after repeated exposure.
<b>Aspiration hazard</b>	None known.

## 12. Ecological information

<b>Ecotoxicity</b>	Very toxic to aquatic life. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.
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Product	Species	Test Results
Avesta CS		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	LC50	Algae 28.7 mg/l, 72 h
Crustacea	LC50	Daphnia magna 24.3 µg/l, 48 h
Fish	LC50	Rainbow Trout (oncorhynchus mykiss) 0.06 mg/l, 96 h

<b>Persistence and degradability</b>	Moderately persistent in the soil environment, with a half-life of approximately 30 days in most soils.
<b>Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>Mobility in soil</b>	Active ingredient has a high affinity for soil.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site according to all applicable regulations.
<b>Hazardous waste code</b>	Not regulated.
<b>Waste from residues / unused products</b>	Not available.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with all applicable regulations.

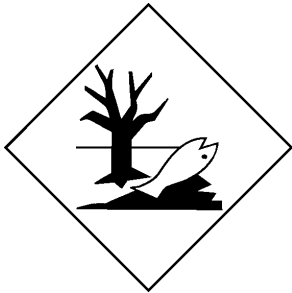
## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Not available.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

IMDG



Marine pollutant



## 15. Regulatory information

### US federal regulations

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

United States Environmental Protection Agency (EPA) Labeling Requirements: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION!

Harmful if absorbed through skin. Avoid contact with eyes, skin, and clothing. Wash hands after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

ACETOPHENONE (CAS 98-86-2)

Listed.

Lambda-Cyhalothrin (CAS 68085-85-8)

Listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Lambda-Cyhalothrin	68085-85-8	9.7
ACETOPHENONE	98-86-2	4

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

ACETOPHENONE (CAS 98-86-2)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

ACETOPHENONE (CAS 98-86-2)

**US. Massachusetts RTK - Substance List**

ACETOPHENONE (CAS 98-86-2)

Lambda-Cyhalothrin (CAS 68085-85-8)

**US. New Jersey Worker and Community Right-to-Know Act**

ACETOPHENONE (CAS 98-86-2)

Lambda-Cyhalothrin (CAS 68085-85-8)

**US. Pennsylvania Worker and Community Right-to-Know Law**

ACETOPHENONE (CAS 98-86-2)

Lambda-Cyhalothrin (CAS 68085-85-8)

**US. Rhode Island RTK**

ACETOPHENONE (CAS 98-86-2)

Lambda-Cyhalothrin (CAS 68085-85-8)

**US. California Proposition 65**

Not Listed.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

<b>Issue date</b>	06-28-2016
<b>Version #</b>	01
<b>Further information</b>	Not available.
<b>HMIS® ratings</b>	Health: 2* Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 0 Instability: 0

## Disclaimer

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