# An American Vanguard Company

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Avesta™ CS

Other means of identification

SDS number 535

**Product registration** 

74530-53-5481

Recommended use

number

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

**AMVAC Chemical Corporation** Company name

4695 MacArthur Court **Address** 

Suite 1200

Newport Beach, CA 92660

AMVAC Chemical Corp

**AMVAC Chemical Corp** Telephone 949-260-1200

949-260-6270(FAX)

Website www.amvac.com

E-mail CustServ@amvac.com

Medical 888-681-4261 **Emergency phone number CHEMTREC®** 800-424-9300

(USA+Canada)

Product Use

888-462-6822 +1-703-527-3887 CHEMTREC® (Outside

USA)

2. Hazard(s) identification

Not classified. Physical hazards Not classified. **Health hazards** 

**Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Wear protective gloves and eye/face protection. Prevention

Avoid release to the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Response

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

Collect spillage.

Store in original container. Storage

Material name: Avesta™ CS 1646 Version #: 2.0 Revision date: Oct-18-2019 Issue date: Oct-18-2019 **Disposal** 

Hazard(s) not otherwise

classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Supplemental information

This 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 in section 15. The pesticide label also includes other important information, including directions for use.

# 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
Inert ingredients		7732-18-5	86.3

## 4. First-aid measures

Inhalation 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.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

If skin irritation occurs: Get medical advice/attention.

Eye contact 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.

Call a physician or poison control center immediately. Ingestion

Mild eye irritation.

Do not give any liquid to the person.

Do not induce vomiting without advice from poison control center.

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special

treatment needed

# 5. Fire-fighting measures

The product itself does not burn. Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing

media

Not applicable, non-combustible,

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment and precautions for firefighters

(approved or equivalent) and full protective gear.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

This is a water base non-flammable liquid that will support fire only if the solvent is evaporated off

first.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up.

Avoid contact with eyes, skin, and clothing.

Ensure adequate ventilation.

Dike the spilled material. Methods and materials for containment and cleaning up

Absorb spill with vermiculite or other inert material.

Shovel, sweep or vacuum up spillage and collect in suitable container for disposal.

Collect and dispose of spillage as indicated in section 13 of the SDS. **Environmental precautions** Do not discharge into drains, water courses or onto the ground.

Material name: Avesta™ CS SDS US

#### 7. Handling and storage

Read label before use. Avoid contact with eyes, skin, and clothing. Wash thoroughly after Precautions for safe handling

handling. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities Store in a tightly closed container. 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 Value **Type** Lambda-Cyhalothrin (CAS PEL 5 mg/m3

68085-85-8)

**US. ACGIH Threshold Limit Values** 

Components Value Type Acetophenone (CAS **TWA** 10 ppm 98-86-2)

Lambda-Cyhalothrin (CAS **TWA** 5 mg/m3

68085-85-8)

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

Components Type Value TWA Lambda-Cyhalothrin (CAS 5 mg/m3

68085-85-8)

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Value Type TWA Acetophenone (CAS 50 mg/m3 98-86-2)

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

Tight fitting chemical goggles are recommended. Eye/face protection

Skin protection

Hand protection Chemical resistant gloves.

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

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

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.

4.17

Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available.

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Material name: Avesta™ CS SDS US Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

1.01

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Not available. Not available. Vapor pressure

Vapor density Not available.

Relative density

Solubility(ies)

Solubility (water) Miscible Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 

10. Stability and reactivity

Reactivity Not available.

**Chemical stability** Stable at normal conditions and storage conditions.

Not available.

Possibility of hazardous

reactions

**Viscosity** 

None known.

Conditions to avoid None known. Not available. Incompatible materials

**Hazardous decomposition** 

products

Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological information

Information on likely routes of exposure

Inhalation Based on available data, the classification criteria are not met.

Skin contact Not a skin irritant or skin sensitizer.

Eye contact Not an eye irritant. Ingestion None known. Symptoms related to the None known.

physical, chemical and toxicological characteristics

Information on toxicological effects

**Acute toxicity** 

Product	Species	Test Results	
Avesta™ CS			
<u>Acute</u>			
Dermal			
Liquid			
LD50	Rat	> 5000 mg/kg	
Inhalation			
Liquid			
LC50	Rat	> 2.23 mg/l, 4 h	
Oral			
Liquid			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Non irritating to skin.		
Serious eye damage/eye irritation	Non-irritating		

Material name: Avesta™ CS SDS US Respiratory or skin sensitization

Respiratory sensitization None known.

Skin sensitization 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 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

No specific target organ toxicity is expected after single exposure.

Specific target organ toxicity -

repeated exposure

No specific target organ toxicity is expected after repeated exposure.

Aspiration hazard None known.

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below

the mean high water mark.

**Product Species Test Results** Avesta™ CS Aquatic Acute LC50 Algae 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

Persistence and degradability

Moderately persistent in the soil environment, with a half-life of approximately 30 days in most

soils.

Bioaccumulative potential

Bioaccumulation is unlikely.

Mobility in soil

Active ingredient has a high affinity for soil.

Other adverse effects

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

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site according to all

applicable regulations.

Waste from residues / unused

products

Not available.

Contaminated packaging

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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

UN number UN3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lambda-Cyhalothrin),

MARINE POLLUTANT

Material name: Avesta™ CS sps us

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

**Environmental hazards** 

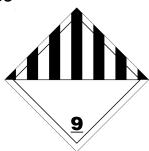
Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPOL 73/78 and the IBC Code

**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.

## **Toxic Substances Control Act (TSCA)**

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.

Material name: Avesta™ CS sps us

# SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Nο

chemical

#### SARA 313 (TRI reporting)

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

#### 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

Not regulated.

(SDWA)

#### **US state regulations**

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

Acetophenone (CAS 98-86-2)

#### **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

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

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

Issue date Oct-18-2019 Oct-18-2019 **Revision date** 

Version # 2.0

**HMIS®** ratings Health: 2\*

> Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

Material name: Avesta™ CS SDS US

No

<sup>\*</sup>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).

#### **Disclaimer**

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NFPA is a trademark of the National Fire Protection Association, Inc.

**Revision information** 

Hazard(s) identification: Hazard statement

Handling and storage: Precautions for safe handling

Toxicological information: Eye contact

Material name: Avesta™ CS sps us