

**1. Identification**

**Product identifier**                      **Equus 720 SST Fungicide**

**Other means of identification**

**SDS number**                              567

**Product registration number**        5481-619

**Recommended use**                      Fungicide. See label for a complete list of uses.

**Recommended restrictions**            No other uses are advised.  
Keep out of the Reach of Children!

**EPA Registration number**              EPA: 5481-619

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

**Manufacturer**

**Company name**                      AMVAC Chemical Corporation

**Address**                                4695 MacArthur Court  
Suite 1200  
Newport Beach, CA 92660

**Telephone**                            AMVAC Chemical Corp      949-260-1200  
AMVAC Chemical Corp      949-260-6270(FAX)

**Website**                                www.amvac.com

**E-mail**                                  CustServ@amvac.com

**Emergency phone number**

    Medical                                    888-681-4261

    CHEMTREC®                              800-424-9300  
(USA+Canada)

    Product Use                                888-462-6822

    CHEMTREC® (Outside                  +1-703-527-3887  
USA)

**2. Hazard(s) identification**

**Physical hazards**                      Not classified.

**Health hazards**

    Acute toxicity, inhalation                      Category 4

    Serious eye damage/eye irritation            Category 2

    Carcinogenicity                                  Category 2

    Specific target organ toxicity, single exposure    Category 3 respiratory tract irritation

**Environmental hazards**

    Hazardous to the aquatic environment, acute hazard    Category 1

    Hazardous to the aquatic environment, long-term hazard    Category 1

**OSHA defined hazards**                      Not classified.

**Label elements**

**Hazard symbol**                      None.

**Signal word**                            None.

**Hazard statement**

## Precautionary statement

### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear respiratory protection.

### Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage

### Disposal

Not available.

### Hazard(s) not otherwise classified (HNOC)

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  | %             |
|---------------------|---|-------------|---------------|
| Chlorothalonil      | 2,4,5,6-Tetrachloro-1,3-benzenedicarboni<br>trile | 1897-45-6   | 52.38 - 55.62 |
| Proprietary Solvent |   | Proprietary | < 10          |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

### Inhalation

Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

### Skin contact

Not available.

### Eye contact

Not available.

### Ingestion

Not available.

### Most important symptoms/effects, acute and delayed

High vapor concentrations may cause central nervous system depression which can lead to dizziness, weakness and headache.

### General information

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

## 5. Fire-fighting measures

### Suitable extinguishing media

Not available.

### Unsuitable extinguishing media

Not available.

### Specific hazards arising from the chemical

Not applicable.

### Special protective equipment and precautions for firefighters

Not available.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Large Spills: Siphon the spilled liquid into a recovery drum for reuse or disposal, depending on the circumstances. Clean the area as described for a small spill. Clean the area with common powdered household detergent and a stiff brush and just enough water to make a slurry.

**Environmental precautions**

Not available.

**7. Handling and storage****Precautions for safe handling**

Avoid breathing mist or vapor.

**Conditions for safe storage, including any incompatibilities**

Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. ACGIH Threshold Limit Values**

| Components          | Type | Value                | Form                |
|---------------------|------|----------------------|---------------------|
| Proprietary Solvent | STEL | 10 mg/m <sup>3</sup> | Aerosol, inhalable. |
|                     |      | 50 ppm               | Vapor fraction      |
|                     | TWA  | 25 ppm               | Vapor fraction      |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Not available.

**Skin protection****Hand protection**

Neoprene, butyl rubber, nitrile or Viton gloves are recommended.

**Other**

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

**Respiratory protection**

For exposures that may exceed the TLV, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) is required. A full-face respirator or a SCBA may be required if misting or splashing are possible.

**Thermal hazards**

Not available.

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

Liquid.

**Form**

Liquid.

**Color**

Off-white

**Odor**

Slight.

**Odor threshold**

Not available.

**pH**

7.7 (1% dispersion)

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

Not available.

**Flash point**

210 °F (99 °C) estimated

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

2.6 % estimated

**Flammability limit - upper (%)**

12.6 % estimated

**Explosive limit - lower (%)**

Not available.

**Explosive limit - upper (%)**

Not available.

**Vapor pressure**

Not available.

|                           |                            |
|---------------------------|----------------------------|
| Vapor density             | Not available.             |
| Relative density          | Not available.             |
| Solubility(ies)           |                            |
| Solubility (water)        | Not available.             |
| Auto-ignition temperature | 700 °F (371 °C) estimated  |
| Decomposition temperature | Not available.             |
| Viscosity                 | Not available.             |
| Other information         |                            |
| Density                   | 1.32 g/cm <sup>3</sup>     |
| Dynamic viscosity         | 807 cP                     |
| Flammability class        | Combustible IIIB estimated |
| Percent volatile          | 6.4 % estimated            |
| VOC                       | 6.4 % estimated            |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | Not available.   |
| Chemical stability                 | Not available.   |
| Possibility of hazardous reactions | Not available.   |
| Conditions to avoid                | Keep out of reach of children. Store away from foodstuffs, animal feed, and fertilizers. |
| Incompatible materials             | Alkaline compounds. Metals such as aluminum, tin, and zinc.                              |
| Hazardous decomposition products   | Not available.   |

## 11. Toxicological information

### Information on likely routes of exposure

|              |                |
|--------------|----------------|
| Inhalation   | Not available. |
| Skin contact | Not available. |
| Eye contact  | Not available. |
| Ingestion    | Not available. |

**Symptoms related to the physical, chemical and toxicological characteristics** Serious eye irritation.

### Information on toxicological effects

**Acute toxicity** Causes serious eye irritation.

| Product                 | Species | Test Results     |
|-------------------------|---------|------------------|
| Equus 720 SST Fungicide |         |                  |
| <b><u>Acute</u></b>     |         |                  |
| <b>Dermal</b>           |         |                  |
| LD50                    | Rabbit  | > 5000 mg/kg     |
| <b>Inhalation</b>       |         |                  |
| LC50                    | Rat     | > 2.02 mg/l, 4 h |
| <b>Oral</b>             |         |                  |
| LD50                    | Rat     | > 5000 mg/kg     |

**Skin corrosion/irritation** Not irritating to skin.

**Serious eye damage/eye irritation** Not available.

### Respiratory or skin sensitization

|                           |                |
|---------------------------|----------------|
| Respiratory sensitization | Not available. |
| Skin sensitization        | Not available. |

**Germ cell mutagenicity** Not available.

### Carcinogenicity

## IARC Monographs. Overall Evaluation of Carcinogenicity

Chlorothalonil (CAS 1897-45-6)

2B Possibly carcinogenic to humans.

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

Not listed.

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

Not listed.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life.

| Components                     |      | Species  | Test Results                 |
|--------------------------------|------|--|------------------------------|
| Chlorothalonil (CAS 1897-45-6) |      |  |                              |
| <b>Aquatic</b>                 |      |  |                              |
| Crustacea                      | EC50 | Water flea (Daphnia magna)                           | 0.081 - 0.113 mg/l, 48 hours |
| Fish                           | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 0.0136 mg/l, 96 hours        |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Not available.

**Waste from residues / unused products** Dispose of in accordance with all applicable regulations.

**Contaminated packaging** Not available.

## 14. Transport information

### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN3082  |
| <b>UN proper shipping name</b>      | Environmentally hazardous substances, liquid, n.o.s. (Chlorothalonil) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 9   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 9   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | No  |
| <b>Special precautions for user</b> | Not available.  |
| <b>Special provisions</b>           | 8, 146, 335, IB3, T4, TP1, TP29                                       |
| <b>Packaging exceptions</b>         | 155   |
| <b>Packaging non bulk</b>           | 203   |
| <b>Packaging bulk</b>               | 241   |

### IATA

|                                   |   |
|-----------------------------------|---|
| <b>UN number</b>                  | UN3082  |
| <b>UN proper shipping name</b>    | Environmentally hazardous substances, liquid, n.o.s. (Chlorothalonil) |
| <b>Transport hazard class(es)</b> |   |
| <b>Class</b>                      | 9   |
| <b>Subsidiary risk</b>            | -   |
| <b>Label(s)</b>                   | 9   |
| <b>Packing group</b>              | III   |
| <b>Environmental hazards</b>      | Yes, when shipped in bulk over large bodies of water                  |

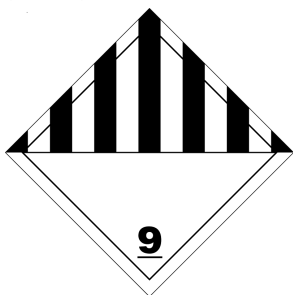
**Special precautions for user** Not available.

**IMDG**

**UN number** UN3082  
**UN proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Chlorothalonil), MARINE POLLUTANT  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Label(s)** 9  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** Not available.  
**Special precautions for user** Not available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

**DOT; IATA; IMDG**



**Marine pollutant**



**General information**

This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less).

## 15. Regulatory information

### US federal regulations

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 below. The pesticide label also includes other important information, including directions for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

**WARNING:** Causes eye irritation. May cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes. Avoid breathing spray mist. Do not take internally.

**Note to user:** This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation, and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This chemical is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### 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)

Proprietary Solvent (CAS Proprietary) Listed.

### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

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

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

| Chemical name  | CAS number | % by wt.      |
|----------------|------------|---------------|
| Chlorothalonil | 1897-45-6  | 52.38 - 55.62 |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Proprietary Solvent (CAS Proprietary)

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Contains component(s) regulated under the Safe Drinking Water Act.

### US state regulations

#### California Proposition 65



**WARNING:** This product can expose you to Chlorothalonil, which is known to the State of California to cause cancer, and Proprietary Solvent, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Chlorothalonil (CAS 1897-45-6)

Listed: January 1, 1989

**California Proposition 65 - CRT: Listed date/Developmental toxin**

Proprietary Solvent (CAS Proprietary)

Listed: June 19, 2015

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

Chlorothalonil (CAS 1897-45-6)

Proprietary Solvent (CAS Proprietary)

**International Inventories**

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| 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****Issue date** Aug-28-2017**Revision date** Aug-07-2020**Version #** 2.0**HMIS® ratings** Health: 2\*  
Flammability: 0  
Physical hazard: 0**NFPA ratings** Health: 2  
Flammability: 0  
Instability: 0**Disclaimer**

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

**Revision information**

Hazard(s) identification: Hazard statement

Hazard(s) identification: Hazard(s) not otherwise classified (HNOC)

Hazard(s) identification: Supplemental information

Composition / Information on Ingredients: Disclosure Overrides

Regulatory information: California Proposition 65

Regulatory information: Safe Drinking Water Act (SDWA)

Other information, including date of preparation or last revision: Disclaimer

GHS: Classification