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## SAFETY DATA SHEET

Product Name : *FSS Protect 310WT*

Date Issued : June 22, 2017

### SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** FSS Protect 310WT  
**Formula :** Multi-component mixture

**Chemical Synonym / C# :** c310WT; ASCC#256D  
**Chemical Family:** Mild Acidic Detergent

**Supplier :** Chemworld.com 885 Woodstock Rd., Ste 430-111 Roswell, GA 30075  
**Information Telephone :** (800) 658-7716

### SECTION 2 : HAZARD IDENTIFICATION

**Form :** liquid **Color :** colorless to pale yellow

**OSHA Hazard Communication Standard :** This product has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

**GHS Classification :**

- Serious eye damage (Category 1)
- Skin Corrosion / Irritation (Category 1C)

**Signal Word :** Danger



**GHS Hazard Pictograms :**

Corrosion

**Hazard Statements :**

- H318 Causes serious eye damage.
- H314 Causes severe skin burns and eye damage.

**Precautionary Statements :**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P303 + P361 + P353 +P363 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before re-use.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification :**

None known. See Section 11 for Potential Health Hazards

# SAFETY DATA SHEET

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## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Citric Acid	77-92-9	40 - 60
Phosphate derivative blend	Proprietary	5 - 10

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

## SECTION 4 : FIRST AID MEASURES

**General Information:** Move out of dangerous area. Immediately remove any clothing soiled by the product. Consult a physician.

**Eye Contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**Skin Contact:** Immediately wash with water and soap and rinse thoroughly.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Notes to physician :** No further relevant information available.

## SECTION 5 : FIRE FIGHTING MEASURES

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Fire Fighting Procedures:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Unusual Fire and Explosion Hazards:** None known.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:**

**Environment Precautions :** Keep out of sewers, storm drains, surface waters and soil. Disposal should be in accordance with local, state, or national legislation.

**Small Spill:** Absorb with suitable absorbant such as sand or vermiculite and dispose of in DOT-approved waste containers.

**Large Spill:** Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

**Solid spill:** Sweep up and return to container.

## SECTION 7 : HANDLING AND STORAGE

**Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to avoid formation of vapor. Wash exposed skin thoroughly after handling.

**Storage Requirements:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# SAFETY DATA SHEET

Product Name : FSS Protect 310WT

Date Issued : June 22, 2017

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Citric Acid	-	-
Phosphate derivative	-	-

### Engineering measures :

**Ventilation / Local Exhaust / Mechanical Recommendations :** Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing dust mask.

### Personal protective equipment :

**Respiratory Protection:** Use NIOSH / MSHA (or similar standard) mask for fumes and mist if ventilation is inadequate.

**Skin Protection:** Vinyl or rubber protective gloves.

**Eye Protection:** Goggles or face shield

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Appearance / Odor:** clear, colorless to pale yellow liquid, odor nil.

**Water Solubility:** Complete

**pH (1%):** 2 - 3

**Specific Gravity:** 1.21

**Boiling Point (°F) :** 212+

**Evaporation Rate(water=1):** N/A

**% Volatile:** N/A

**Vapor Density(air=1) :** N/A

**Vapor Pressure(mmHg):** N/A

**Flash Point :** None

**Flash Point Method Used:** N/A

**Flammable Limits: LEL =** N/A **UEL =** N/A

## SECTION 10 : STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** No dangerous decomposition products known.

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Splashing solutions

**Incompatibility with other Substances:** Strong oxidizers. Sodium hypochlorite. Strong bases.

**Hazardous Polymerization:** Will not occur.

# SAFETY DATA SHEET

Product Name : FSS Protect 310WT

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## SECTION 11 : TOXICOLOGICAL INFORMATION

### **Potential Health Hazards (as mild acid or detergent blend) :**

**Inhalation:** Inhalation of mists or dusts may cause irritation to respiratory tract. Symptoms from excessive inhalation or of concentrated product may include gasping or coughing and difficulty breathing. Excessive contact may cause damage to the nasal septum.

**Skin Contact:** May cause mild irritation. Concentrated or prolonged contact may cause irritation with redness and blistering.

**Eye Contact:** May cause mild irritation. Concentrated or prolonged contact may cause conjunctival edema and corneal destruction.

**Ingestion:** Swallowing may produce gastrointestinal upset. Symptoms from ingestion of large doses may include severe abdominal pain, vomiting, and diarrhea.

**Toxicological Data:** Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

### **Toxicological Data (as citric acid):**

#### **Acute Toxicity/Effects**

Oral LD50 mouse = 5.400 mg/kg Method: OECD Test Guideline 401

Oral LD50 rat = 11.700 mg/kg Method: OECD Test Guideline 401

Dermal LD50 rat = > 2.000 mg/kg

LD50 rat (Application Route: i.p.) = 725 mg/kg

LD50 mouse (Application Route: i.p.) = 940 mg/kg

**Skin corrosion/irritation :** Species: rabbit. Result: No skin irritation. May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation :** Species: rabbit. Result: Irritating to eyes.

**Respiratory or skin sensitization :** Maximisation Test. Species: guinea pig. Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

**Germ cell mutagenicity :** In vivo tests did not show mutagenic effects

**Carcinogenicity:** Did not show carcinogenic or teratogenic effects in animal experiments.

**Reproductive toxicity :**

**Specific target organ toxicity - single exposure :**

**Specific target organ toxicity - repeated exposure :**

**Aspiration hazard :** No toxicity to reproduction

**Chronic effects :** Target Organ Systemic Toxicant - Repeated exposure

### **Toxicological Data (as Phosphate derivative) : Acute**

#### **Toxicity/Effects**

Oral LD50 rat = 2.400 mg/kg

Dermal LD50 Rabbit = 7.940 mg/kg

**Skin corrosion/irritation :** Rabbit, 24 hr exposure, 168 hr observation = 0 Primary dermal irritation index (PDII). Conclusion : Non-irritating to the skin. Causes serious eye damage. Respiratory, conclusive but not sufficient for classification.

**Serious eye damage/eye irritation :** Severely corrosive to the eyes and skin.

**Respiratory sensitization :** Conclusive but not sufficient for classification.

**Skin sensitization :** Not sensitizing

**Germ cell mutagenicity :** Not mutagenic in a standard battery of genetic toxicological tests.

Test = 471 Bacterial Reverse Mutation Test. Experiment = In vitro; Bacteria. Result = negative.

# SAFETY DATA SHEET

Product Name : *FSS Protect 310WT*

Date Issued : June 22, 2017

## Toxicological Data (as Phosphate derivative), continued :

**Carcinogenicity:** Result = Negative - Oral - NOAEL. Species = Rat. Dose = 384 milligram per kilogram, Repeated dose. Exposure = 104 weeks, Repeated dose 7 days per week. Conclusive but not sufficient for classification.

**Reproductive toxicity :** Conclusive but not sufficient for classification.

**Teratogenicity :** Conclusive but not sufficient for classification.

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

**Specific target organ toxicity - repeated exposure :** Not available.

**Aspiration hazard :** Not available.

**Information on the likely routes of exposure :** Not available.

**Chronic effects :** NOAEL, Oral. Rat. Dose : 30 milligram per kilogram, Repeated dose. 28 days, 7 days per week. **Remarks:** No known significant effects or critical hazards.

## SECTION 12 : ECOLOGICAL INFORMATION

**Ecotoxicological Information :** No data found on blended product. Avoid contaminating waterways.

### Ecotoxicological Information (as citric acid):

#### Toxicity :

Fish, LC50 = 440 mg/l. Exposure time: 48 h. Species: *Leuciscus idus* (Golden orfe) static test.  
Method: OECD Test Guideline 203

Crustacea, LC50 = 1.535 mg/l. Exposure time: 24 h. Species: *Daphnia magna* (Water flea). static test

Algae = 425 mg/l. Exposure time: 168 h. Species: *Scenedesmus quadricauda* (Green algae). static test

Bacteria = > 10.000 mg/l. Exposure time: 16 h. Species: *Pseudomonas putida*

#### Persistence and degradability :

97 %. Testing period: 28 d. Method: OECD Test Guideline 301B. Readily biodegradable.

100 %. Testing period: 19 d. Method: OECD Test Guideline 301E. Readily biodegradable.

Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

**Bioaccumulative potential :** The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

**Mobility in Soil :** Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

### Ecotoxicological Information (as Phosphate derivative) :

#### Toxicity :

Fish, LC50 = 368 mg/l Fresh water. Fish - Rainbow trout, donaldson trout. 96 hr exposure.

Fish, LC50 = 868 mg/l Fresh water. Fish - Bluegill. 96 hr exposure.

Crustacea, EC50 = 527 mg/l Fresh water. Aquatic invertebrates - Water flea. 48 hr exposure.

#### Persistence and degradability :

**Test = 302B** Inherent Biodegradability: Zahn. Wellens/EMPA Test

**Result = 33 % - 28 d**

**Test = 301E** Ready Biodegradability - Modified OECD Screening Test

**Result = 2 % - 70 d**

**Bioaccumulative potential :** LogPow = -3,5. BCF - . Potential = low.

#### Mobility in Soil :

Soil/water partition coefficient (KOC) : Not available.

**Other adverse effects :** No known significant effects or critical hazards.

# SAFETY DATA SHEET

Product Name : FSS Protect 310WT

Date Issued : June 22, 2017

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

**Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded?** No

**If yes, the RCRA ID number is :** N/A

## SECTION 14 : TRANSPORTATION INFORMATION

**Transportation Emergency Telephone Number:** 3E 24 hour number : (855) 347-8203

**UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information:** NOT REGULATED BY DOT (acidic cleaning liquid NOIBN)

## SECTION 15 : REGULATORY INFORMATION

### US FEDERAL REGULATIONS :

**TSCA (Toxic Substances Control Act) Status :** The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a) :**

**Component      RQ (lbs)**

None

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

**SARA 302 Components - 40 CFR 355 Appendix A**

**Section 302 Component(s)   TPQ (lbs)   RQ (lbs)**

None

**SARA 311/312 Classification - 40 CFR 370.2 :**

Reactive, Immediate (acute) health hazard as **Phosphate derivative**

**SARA 313 Components - 40 CFR 372.65:**

**Section 313 Component(s)   CAS #      %**

This product does not contain any chemicals subject to reporting requirements.

# SAFETY DATA SHEET

Product Name : *FSS Protect 310WT*

Date Issued : June 22, 2017

## INTERNATIONAL REGULATIONS :

**Citric acid** is listed or is in compliance with the following inventories: EINECS, AICS, DSL, ENCS, KECI, PICCS, IECSC, NZIoC. Canada WHMIS : Class E

All components of **Phosphate derivative** are listed or exempted on the following inventories: Australia inventory (AICS), Japan inventory, China inventory (IECSC), Korea inventory, New Zealand Inventory of Chemicals (NZIoC), Philippines inventory (PICCS). Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. Canada inventory : All components are listed or exempted.

## STATE REGULATIONS :

**California Safe Drinking Water Act (Prop. 65) Listing :** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **Other Regulations / Legislation which apply to this product:**

**Phosphate derivative** is listed on the following inventories: New Jersey. None of the components of **Phosphate derivative** are listed on the following state regulations : Massachusetts, New York, Pennsylvania.

## SECTION 16 : OTHER INFORMATION

**NFPA Rating :** HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0  
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

**Revision Date :** 6/21/2017

Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.