

Material Safety Data Sheet

Identity: Yuccah™ Liquid Concentrate **Last Update:** September 22, 2008

Chemical name: Natural Sarsaponin (Extract of *Yucca schidigera* plant) with synthetic surfactant

Section I -- Manufacturer

Plant Health Care, Inc.
440 William Pitt Way
Pittsburgh, PA 15238

Emergency Phone #: 800-421-9051
Phone # for Information: 412-826-5488 x103

Section II -- Hazardous Ingredients/Identity Information

Hazardous Components	%	
Nonylphenoxypoly(ethyleneoxy) ethanol	9.9	Oral Toxicity: 3000 mg/Kg (rat)
Sodium Benzoate	0.2	Oral Toxicity: 4.1 g/Kg (rat LD ₅₀)
or		OSHA PEL ACGIH TLV
Copper Sulfate	0.2	1 mg/m ³ (as Cu)

Section III -- Physical/Chemical Characteristics

Boiling Point: NA **Specific Gravity:** 1.07
Vapor Pressure: NA **Melting Point:** NA
Vapor Density: NA **Evaporation Rate:** NA
Solubility in Water: fully soluble
Appearance and Odor: Thick liquid with color of coffee and slight coffee odor.

Section IV -- Fire and Explosion Hazard Data

Flash Point: will not burn unless boiled dry **Flammable Limits; LEL:** NA **UEL:** NA

Extinguishing Media: Water, foam.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None, will not burn unless boiled dry.

NFPA: Healthy: 1 Flammability: 0 Reactivity: 0

Section V -- Reactivity Data

Stability: Chemically stable **Conditions to Avoid:** May ferment if diluted during storage, causing the evolution of gas (CO₂) and pressurizing of containers. Avoid heat.

Incompatibility (Materials to avoid): None Known

Hazardous Decomposition or Byproducts: When boiled down and burned: CO, CO₂, hydrocarbons.

Hazardous Polymerization: Will Not Occur

MSDS -- Yuccah™ Liquid Concentrate

Section VI -- Health Hazard Data

Route(s) of Entry: Skin--Yes Ingestion--Yes Eyes: yes Inhalation: No

Health Hazards (Acute and Chronic): Brief contact to skin is not hazardous. Prolonged skin exposure may stain and defat skin. May irritate eyes, mouth and other mucous membranes if contacted.

Carcinogenicity: No Data

Signs and Symptoms of Exposure: Irritation of eyes, mouth or throat if contacted; stained and dry skin. Possible digestive disturbances if ingested.

Medical Conditions Generally Aggravated by Exposure: None Known

Emergency and First Aid Procedures: Eyes: Flush with water. See physician if irritation persists. Skin: Wash with soap and water, apply a skin lotion to alleviate dryness. Ingestion: If ingested, drink water, induce vomiting, and call a physician.

Section VII -- Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: The major ingredient is a safe and nonhazardous plant extract. The other ingredients are surfactants and preservatives. There is little danger to the environment if spilled. Collect spilled material, and be cautious of slippery conditions. Wash surfaces clean with water.

Waste Disposal Method: Check with local authorities to determine if material can be handled through the municipal waste water system (POTW). Follow all state, federal, and local regulations for solid waste.

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Other Precautions: Do not dilute or add materials to the product, as fermentation or other biological activity may occur, releasing byproducts, and causing pressurization of the container.

Section VII -- Control Measures

Respiratory Protection: Not required

Ventilation: Not required

Protective Gloves: Recommended: Rubber, latex, vinyl, or any gloves without pores.

Eye Protection: Safety Glasses recommended.

Other Protective Clothing or Equipment: Apron recommended to protect clothing from staining.

Work/Hygienic Practices: Wash hands after handling. If spilled on clothes, wash as usual. If spilled on floor, wash area to protect against slippage.