

Issue Date 01-Mar-2010

Revision Date 14-May-2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Spectrum 1 Shampoo

Other Means of Identification

SDS # CC-009

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Shampoo.

Details of the Supplier of the Safety Data Sheet

Supplier Address

Chris Christensen Systems Inc.
PO Box 961
Fairfield, TX 75840

Emergency Telephone Number

Company Phone Number 903-389-7949
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Clear, colorless liquid

Physical State Slightly viscous liquid

Odor Pleasant Fragrance

Other Hazards

May cause gastrointestinal discomfort
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS No	Weight-%
Inert	Proprietary	40 - 50%
Surfactant Blend	Proprietary	25-35
Surfactant Blend	Proprietary	25-35

4. FIRST AID MEASURES

First Aid Measures

Eye Contact	Wash affected eye or eyes under slow running water for 15 minutes or longer, making sure the eyelids are held apart. If eye irritation persists: Get medical advice/attention.
Skin Contact	Flush with warm, running water for 15 minutes if skin irritation occurs. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air.
Ingestion	If swallowed, consult a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Repeated exposure may cause sensitization due to an allergic reaction of the skin. Prolonged or repeated exposure may cause skin to become dry or cracked. Eye contact may result in redness, pain, blurred vision, burning sensation. Ingestion may cause nausea, vomiting and abdominal pain.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not self-igniting when exposed to normal atmospheric conditions.

Hazardous Combustion Products Normal products of combustion.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

- Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Keep public away from danger area. No smoking in spill area.
- Environmental Precautions** Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

Methods and Material for Containment and Cleaning Up

- Methods for Containment** Prevent further leakage or spillage if safe to do so. Clean up any spills as soon as possible.
- Methods for Cleaning Up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

- Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.
- Incompatible Materials** None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Guidelines** No exposure limits noted for ingredient(s)

Appropriate Engineering Controls

- Engineering Controls** Showers
Eyewash stations
Ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment

- Eye/Face Protection** Avoid contact with eyes.
- Skin and Body Protection** Wear suitable protective clothing.
- Respiratory Protection** Ensure adequate ventilation, especially in confined areas.
- General Hygiene Considerations** Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Appearance Color	Slightly viscous liquid Clear, colorless liquid Colorless	Odor Odor Threshold	Pleasant Fragrance Not determined
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Property	Values	Remarks • Method
pH	3-7	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	93 °C / 220 °F	
Flash Point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.008-1.032	@ 22°C
Water Solubility	Completely soluble	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact	Avoid contact with eyes. Eye contact may result in redness, pain, blurred vision, burning sensation.
Skin Contact	Avoid contact with skin. Prolonged or repeated exposure may cause skin to become dry or cracked. May cause sensitization by skin contact.
Inhalation	Do not inhale.
Ingestion	Ingestion may cause nausea, vomiting and abdominal pain. Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Inert	> 90 mL/kg (Rat)	-	-
Surfactant Blend	= 1288 mg/kg (Rat)	= 580 mg/kg (Rabbit)	> 3900 mg/m ³ (Rat) 1 h

Information on Physical, Chemical and Toxicological Effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Serious Eye Damage/Eye Irritation	Eye contact may result in redness, pain, blurred vision, burning sensation.
Sensitization	May cause sensitization by skin contact.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Surfactant Blend	53: 72 h Desmodesmus subspicatus mg/L EC50 30 - 100: 96 h Desmodesmus subspicatus mg/L EC50 117: 96 h Pseudokirchneriella subcapitata mg/L EC50 3.59 - 15.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	8 - 12.5: 96 h Pimephales promelas mg/L LC50 static 15 - 18.9: 96 h Pimephales promelas mg/L LC50 static 22.1 - 22.8: 96 h Pimephales promelas mg/L LC50 static 4.3 - 8.5: 96 h Oncorhynchus mykiss mg/L LC50 static 4.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 4.2: 96 h Oncorhynchus mykiss mg/L LC50 7.97: 96 h Brachydanio rerio mg/L LC50 flow-through 9.9 - 20.1: 96 h Brachydanio rerio mg/L LC50 semi-static 4.06 - 5.75: 96 h Lepomis macrochirus mg/L LC50 static 4.2 - 4.8: 96 h Lepomis macrochirus mg/L LC50 flow-through 4.5: 96 h Lepomis macrochirus mg/L LC50 5.8 - 7.5: 96 h Pimephales promelas mg/L LC50 static 10.2 - 22.5: 96 h Pimephales promelas mg/L LC50 semi-static 6.2 - 9.6: 96 h Pimephales promelas mg/L LC50 13.5 - 18.3: 96 h Poecilia reticulata mg/L LC50 semi-static 10.8 - 16.6: 96 h Poecilia reticulata mg/L LC50 static 1.31: 96 h Cyprinus carpio mg/L LC50 semi-static		1.8: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Surfactant Blend	1.6

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards Not determined	Flammability Not determined	Physical Hazards Not determined	Personal Protection Not determined

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Revision Note	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet