Material Safety Data Sheet: CINNAMON FOAM CLEANER EF, MM

Supercedes Date 07/09/2010 **Issuing Date** 08/20/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CINNAMON FOAM CLEANER EF, MM
Recommended use Cleaning agent

Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0659
Chemical nature Aqueous mixture Acidic

Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
Corrosive
Causes skin and eye burns
May cause allergic skin reaction
May cause delayed lung injury and burns
Harmful or fatal if swallowed

Color Blue green **Physical State** Liquid **Odor** Cinnamon

Potential Health Effects

Principle Route of Exposure	Eye contact, Skin contact, Inhalation.
Primary Routes of Entry	Inhalation, Skin Absorption, Ingestion.
Acute Effects	
Eyes	Causes eye burns.
Skin	Causes skin burns. May be absorbed through the skin in harmful amounts. May cause allergic skin reaction.
Inhalation	Harmful by inhalation. Causes burns. May cause central nervous system depression. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts. May be fatal if swallowed.
Chronic Toxicity	Liver and kidney injuries may occur. May cause disorder and damage to the spleen. Blood disorder may occur after prolonged inhalation. May cause sensitization by skin contact. Inhaled corrosive substances can lead to a toxic edema of the lungs. Contains material that may adversely affect the developing fetus.
Target Organ Effects	Liver, Kidney, Spleen, Blood, Immune system, Respiratory system, Central nervous system.
Aggravated Medical Conditions	Respiratory disorders, Neurological disorders, Kidney disorders, Liver disorders, Skin disorders, Blood disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Phosphoric acid	7664-38-2
Alkylbenzenesulfonic acid (C10-16)	68584-22-5
Ethylene glycol monopropyl ether	2807-30-9
Cinnamic aldehyde	104-55-2

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup
Autoignition Temperature No information available.
Upper No data available **Lower** No data available
Suitable Extinguishing Media
Dry chemical. Foam. Carbon dioxide (CO2). Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
Material can create slippery conditions. Contact with metals may evolve flammable hydrogen gas.
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.

NFPA	**Health** 3	**Flammability** 1	**Instability** 0
HMIS	**Health** 3	**Flammability** 1	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Use personal protective equipment. Material can create slippery conditions.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)
Methods for Cleaning Up Pick up and transfer to properly labeled containers
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist. Ensure adequate ventilation. Wear personal protective equipment.
Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Keep from freezing. If product freezes, warm to room temperature slowly and mix thoroughly before using.
Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Phosphoric acid	TWA: 1 mg/m^3 STEL: 3 mg/m^3	TWA: 1 mg/m^3	IDLH: 1000 mg/m^3 STEL 3 mg/m^3 TWA: 1 mg/m^3
Alkylbenzenesulfonic acid (C10-16)	No data available	No data available	No data available
Ethylene glycol monopropyl ether	No data available	No data available	No data available
Cinnamic aldehyde	No data available	No data available	No data available

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles. Face-shield.
Skin Protection Wear suitable protective clothing, Impervious gloves.
Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Blue green	**Odor**	Cinnamon
Appearance	Opaque	**pH**	0.9
Specific Gravity	1.06	**Evaporation Rate**	0.55 (Butyl acetate=1)
Percent Volatile (Volume)	95.2	**VOC Content (%)**	3.8
VOC Content (g/L)	40	**Vapor Pressure**	16.1 mmHg @ 70°F
Vapor Density	0.7 (Air = 1.0)	**Solubility**	Completely soluble
Boiling Point/Range	230 °F / 110 °C		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known
Incompatible Products Strong oxidizing agents, Reducing agents, Strong bases, Halogenated compounds.
Hazardous Decomposition Products Carbon oxides, Sulfur oxides, Oxides of phosphorus, Contact with metals liberates hydrogen gas.
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Phosphoric acid	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m^3 (Rat) 1 h	no data available	no data available
Alkylbenzenesulfonic acid (C10-16)	= 530 mg/kg (Rat)	= 530 mg/kg (Rat)	no data available	no data available	no data available
Ethylene glycol monopropyl ether	no data available	no data available	no data available	no data available	no data available
Cinnamic aldehyde	= 2200 mg/kg (Rat)	> 2000 mg/kg (Rat) > 2000 mg/kg (Rabbit)	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Phosphoric acid	no data available	no data available	no data available	no data available	eyes,respiratory system,skin
Alkylbenzenesulfonic acid (C10-16)	no data available	no data available	no data available	no data available	no data available
Ethylene glycol monopropyl ether	no data available	no data available	X	no data available	CNS, liver, kidney, spleen, blood, immune system
Cinnamic aldehyde	no data available	skin sensitization	no data available	no data available	immune system

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Phosphoric acid	not applicable	not applicable	not applicable	not applicable	not applicable
Alkylbenzenesulfonic acid (C10-16)	not applicable	not applicable	not applicable	not applicable	not applicable
Ethylene glycol monopropyl ether	not applicable	not applicable	not applicable	not applicable	not applicable
Cinnamic aldehyde	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Phosphoric acid	no data available	LC50 3 - 3.5 mg/L Gambusia affinis 96 h	no data available	EC50= 4.6 mg/L 12 h	N/A
Alkylbenzenesulfonic acid (C10-16)	no data available	LC50 = 3 mg/L Oncorhynchus mykiss 96 h	EC50 = 5 mg/L 6 h	EC50= 2.9 mg/L 48 h	2
Ethylene glycol monopropyl ether	no data available	no data available	no data available	no data available	N/A
Cinnamic aldehyde	no data available	no data available	no data available	no data available	2.22

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
UN-No UN3264
Packing Group III
Reportable Quantity (RQ) Phosphoric acid, RQ kg= 18864.08
Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid, Dodecylbenzene Sulfonic Acid), 8, PG III

TDG

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
UN-No UN3264
Packing Group III
Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid, Dodecylbenzene Sulfonic Acid), 8, PG III

ICAO

UN-No UN3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
Packing Group III
Shipping Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid, Dodecylbenzene Sulfonic Acid), 8, PG III

IATA

UN-No UN3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
Packing Group III
ERG Code 8L
Shipping Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid, Dodecylbenzene Sulfonic Acid), 8, PG III

IMDG/IMO

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
UN-No UN3264
Packing Group III
EmS No. F-A, S-B
Shipping Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s.(Phosphoric acid, Dodecylbenzene Sulfonic Acid), 8, PG III

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies
U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethylene glycol monopropyl ether	2807-30-9	1-5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Phosphoric acid	5000 lb	Not applicable
Alkylbenzenesulfonic acid (C10-16)	Not applicable	Not applicable
Ethylene glycol monopropyl ether	Not applicable	Not applicable
Cinnamic aldehyde	Not applicable	Not applicable

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
E Corrosive material D2B Toxic materials

16. OTHER INFORMATION

Prepared By	Angela Hutson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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