Safety Data Sheet: CHILL CLEAN EF AEROSOL, MM

Supercedes Date 02/18/2010 **Issuing Date** 02/06/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHILL CLEAN EF AEROSOL, MM
Recommended use Cleaning agent
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5201
Chemical nature Aqueous solution (aerosol)
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless **Physical State** Liquid **Odor** Soapy

GHS
Classification

Physical Hazards

Gases under pressure	Compressed Gas

Health Hazard

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2B
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Reproductive Toxicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H320 - Causes eye irritation
H361 - Suspected of damaging fertility or the unborn child
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe vapor, mist or gas
P271 - Use in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs, get medical attention
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %

Polyethylene-polypropylene glycol	9003-11-6	1-5
Butane	106-97-8	1-5
Ethanolamine	141-43-5	1-5

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.
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 If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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 May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
Flammability Limits in Air % Mixture. **Upper** 23.5 **Lower** 1.9
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical
Material can create slippery conditions. Flame extension: 0 inches / 0 cm and Burnback: 0 inch / 0 cm.
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.
Aerosol Level (NFPA 30B) - 1
NFPA **Health** 2 **Flammability** 4 **Instability** 0
HMIS **Health** 2 **Flammability** 4 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. 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 Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.
Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix 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
Polyethylene-polypropylene glycol	No data available	No data available	No data available
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m^3
Ethanolamine	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm TWA: 6 mg/m^3	IDLH: 30 ppm STEL 6 ppm STEL 15 mg/m^3 TWA: 3 ppm TWA: 8 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Eye/Face Protection Tightly fitting safety goggles.

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	Colorless	**Odor**	Soapy
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	11.5	**Specific Gravity**	0.98
Evaporation Rate	4.8 (Butyl acetate=1)	**Percent Volatile (Volume)**	97.5
VOC Content (%)	5.0	**VOC Content (g/L)**	49
Vapor Pressure	42 mmHg @ 70°F	**Vapor Density**	1.4 (Air = 1.0)
Solubility	Partly soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	210 °F / 99 °C	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	**Upper** 23.5 **Lower** 1.9	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid None known
Incompatible Products Strong oxidizing agents, Acids, Bases, Highly halogenated compounds, Acid anhydrides, Aldehydes, Under certain conditions, may react with nitrites or other nitrosating agents to form carcinogenic nitrosamines.
Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx).
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):
Oral LD50 No information available
Dermal LD50 No information available
Inhalation LC50
Gas No information available
Mist No information available
Vapor No information available

Principle Route of Exposure Eye contact, Skin contact, Inhalation.
Primary Routes of Entry Inhalation, Skin Absorption.
Acute Effects
Eyes Severe irritation.
Skin Severe irritation. May cause allergic skin reaction. May be absorbed through the skin in harmful amounts.
Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction.
Ingestion Irritating to mouth, throat, and stomach.
Chronic Toxicity May cause sensitization by skin contact. May cause sensitization by inhalation. Liver and kidney injuries may occur. Contains a known or suspected reproductive toxin.
Target Organ Effects Liver, Kidney, Respiratory system, Heart, Immune system, Reproductive System, Central nervous system, Skin.
Aggravated Medical Conditions Skin disorders, Respiratory disorders, Kidney disorders, Liver disorders, Neurological disorders, Heart disease.

Component Information
Acute Toxicity None known

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Polyethylene-polypropylene glycol	no data available	no data available	= 320 mg/m^3 (Rat) 4 h	no data available	no data available
Butane	no data available	no data available	= 658 g/m^3 (Rat) 4 h	no data available	no data available
Ethanolamine	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit)	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Polyethylene-polypropylene glycol	no data available	no data available	no data available	no data available	no data available
Butane	no data available	no data available	no data available	no data available	CNS, heart
Ethanolamine	no data available	Skin sensitization, Respiratory sensitization	no data available	X	eyes, CNS, respiratory system, skin, liver, kidney, reproductive system, immune system

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Polyethylene-polypropylene glycol	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Ethanolamine	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
Polyethylene-polypropylene glycol	no data available	no data available	no data available	no data available	N/A
Butane	no data available	no data available	no data available	no data available	2.89
Ethanolamine	EC50 = 15 mg/L Desmodesmus subspicatus 72 h	LC50 = 227 mg/L Pimephales promelas 96 h LC50 = 3684 mg/L Brachydanio rerio 96 h LC50 300 - 1000 mg/L Lepomis macrochirus 96 h LC50 114 - 196 mg/L Oncorhynchus mykiss 96 h LC50 > 200 mg/L Oncorhynchus mykiss 96 h	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	EC50= 65 mg/L 48 h	-1.91

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 Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT
Proper Shipping Name Consumer Commodity
Hazard Class ORM-D
Description Consumer Commodity, ORM-D

TDG
Hazard Class ORM-D

ICAO
UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Shipping Description UN1950, Aerosols, non-flammable, 2.2, LTD QTY

IATA
UN-No UN1950
Proper Shipping Name Aerosols, non-flammable
Hazard Class 2.2
ERG Code 2L
Shipping Description UN1950, Aerosols, non-flammable, 2.2, LTD QTY

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2.2
UN-No	UN1950
EmS No.	F-D, S-U
Shipping Description	UN1950, Aerosols, 2.2, LTD QTY

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 does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Polyethylene-polypropylene glycol	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Ethanolamine	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By	Rachael Mohochi
Supercedes Date	02/18/2010
Issuing Date	02/06/2014
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

CERTIFIED LABS, DIV. OF NCH CORP.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.