Safety Data Sheet: NU-COIL AEROSOL, CM

Supercedes Date 03/08/2011 **Issuing Date** 12/27/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name NU-COIL AEROSOL, CM
Recommended use Disinfectants and general biocidal products
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5407
Chemical nature Aqueous solution Aerosol
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White **Physical State** Liquid **Odor** Mild Ammoniacal

GHS
Classification

Physical Hazards

Gases under pressure	Compressed Gas

Health Hazard

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
WARNING

Hazard Statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H302 - Harmful if swallowed
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist
P270 - Do not eat, drink or smoke when using this product
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing 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.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 - Store in a well-ventilated place
P235 - Keep cool
P501 - Dispose of contents and container in accordance with applicable regulations.

5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
2-Butoxyethanol	111-76-2	5-10

Petroleum gases, liquified, sweetened	68476-86-8	3-7
Isopropanol	67-63-0	1-5
Potassium hydroxide	1310-58-3	1-5
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	0.1-1
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	85409-23-0	0.1-1

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing mist.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician or poison control center immediately.

Skin Contact Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Inhalation Move to fresh air. If breathing has stopped, apply artificial respiration. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Give small amounts of water to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Notes to physician Concentrations substantially above the admissible concentration at the workplace may cause damage of liver and kidney and changes in the blood picture. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup

Flammability Limits in Air % Mixture. **Upper** 9.5 **Lower** 1.8

Suitable Extinguishing Media

Water. Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Flame extension: 0 inches / 0 cm and Burnback: 0 inch / 0 cm. Material can create slippery conditions.

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** 1 **Instability** 0

HMIS **Health** 2 **Flammability** 1 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation.

Environmental Precautions Prevent further leakage or spillage if safe to do so

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 Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing mist.

Storage Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place.

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
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3 Skin	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
Petroleum gases, liquified, sweetened	No data available	No data available	No data available
Isopropanol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m^3 TWA: 400 ppm

			TWA: 980 mg/m^3
Potassium hydroxide	Ceiling: 2 mg/m^3	No data available	Ceiling: 2 mg/m^3
Alkyl dimethyl benzyl ammonium chloride (C12-18)	No data available	No data available	No data available
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	No data available	No data available	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	White	**Odor**	Mild Ammoniacal
Odor Threshold	Not applicable	**Appearance**	Opaque
pH	12.8	**Specific Gravity**	1.00
Evaporation Rate	< 1 (Butyl acetate=1)	**Percent Volatile (Volume)**	98
VOC Content (%)	16	**VOC Content (g/L)**	160
Vapor Pressure	17.5 mmHg @ 77°F	**Vapor Density**	0.6 (Air = 1.0)
Solubility	Soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	> 212 °F / 100 °C	**Flammability (solid, gas)**	No data available
Flash Point	> 201 °F / > 94 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	**Upper** 9.5 **Lower** 1.8	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid Keep away from open flames, hot surfaces, and sources of ignition

Incompatible Products Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products Carbon oxides

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.

Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

Eyes Causes eye irritation.

Skin May cause skin irritation. May be absorbed through the skin in harmful amounts.

Inhalation Causes respiratory irritation seen as coughing and sneezing . 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.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Target Organ Effects Liver, Kidney, Spleen, Central nervous system, Lymphatic System, Blood, Reproductive System, Lungs.

Aggravated Medical Conditions Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Blood disorders, Neurological disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
2-Butoxyethanol	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h	no data available	no data available
Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	no data available
Isopropanol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available
Potassium hydroxide	= 214 mg/kg (Rat)	no data available	no data available	no data available	no data available
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	no data available
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2-Butoxyethanol	no data available	no data available	no data available	no data available	liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system, spleen
Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	no data available
Isopropanol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin, liver, kidney, CNS
Potassium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	no data available
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	no data available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
2-Butoxyethanol	A3	not applicable	not applicable	not applicable	not applicable
Petroleum gases, liquified, sweetened	not applicable	not applicable	not applicable	not applicable	not applicable
Isopropanol	not applicable	not applicable	not applicable	not applicable	not applicable
Potassium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Alkyl dimethyl benzyl ammonium chloride (C12-18)	not applicable	not applicable	not applicable	not applicable	not applicable
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	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
2-Butoxyethanol	no data available	LC50 = 1490 mg/L Lepomis macrochirus 96 h LC50 = 2950 mg/L Lepomis macrochirus 96 h	no data available	EC50 1698 - 1940 mg/L 24 h EC50> 1000 mg/L 48 h	0.81
Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	<=2.8
Isopropanol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50= 13299 mg/L 48 h	0.05
Potassium hydroxide	no data available	LC50 = 80 mg/L Gambusia affinis 96 h	no data available	no data available	0.65 0.83
Alkyl dimethyl benzyl ammonium chloride (C12-18)	no data available	no data available	no data available	no data available	N/A
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	no data available	no data available	no data available	no data available	N/A

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. Do not re-use empty containers.

14. TRANSPORT INFORMATION

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

TDG
Hazard Class 2.2
UN-No UN1950

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

IATA
UN-No UN1950
Proper Shipping Name Aerosols, non-flammable, LTD QTY
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
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,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 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
2-Butoxyethanol	111-76-2	5-10	1.0
Isopropanol	67-63-0	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	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
2-Butoxyethanol	Not applicable	Not applicable
Petroleum gases, liquified, sweetened	Not applicable	Not applicable
Isopropanol	Not applicable	Not applicable
Potassium hydroxide	1000 lb	Not applicable
Alkyl dimethyl benzyl ammonium chloride (C12-18)	Not applicable	Not applicable
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By Rachael Mohochi

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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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