

CUSTOMER: 342457
BATCH #: 1818624
PICK ZONE: AER2

ORDER #: 2426867
DELIVERY ID: 13689074
PICK SEQUENCE #: 378
BARCODE #: 10036781

PRODUCT NAME: ENVIROSAN ADVANCED AEROSOL, CM

Safety Data Sheet: ENVIROSAN ADVANCED AEROSOL, CM

Supersedes Date 02/10/2009

Issuing Date 02/28/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ENVIROSAN ADVANCED 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 10036781
Chemical nature Alcoholic solution (aerosol)
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Light yellow

Physical State Liquid

Odor Alcoholic and Floral

GHS

Classification

Physical Hazards

Flammable aerosols
Compressed Gas

Category 2

Health Hazard

Acute Oral Toxicity
Acute Inhalation Toxicity - Gas
Acute Inhalation Toxicity - Dusts and Mists
Serious Eye Damage/Eye Irritation
Reproductive Toxicity
Carcinogenicity
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 4
Category 4
Category 4
Category 2A
Category 1A
Category 1A
Category 1
Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H223 - Flammable aerosol
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H302 - Harmful if swallowed
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H370 - Causes damage to organs
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P202 - Do not handle until all safety precautions have been read and understood
P270 - Do not eat, drink or smoke when using this product
P211 - Do not spray on an open flame or other ignition source
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P240 - Ground/bond container and receiving equipment
P251 - Pressurized container: Do not pierce or burn, even after use
P233 - Keep container tightly closed
P241 - Use explosion-proof electrical/ventilating/lighting/equipment
P242 - Use only non-sparking tools
P370 + P378 - In case of fire: Use amp, foam, dry chemical, water spray, carbon dioxide (CO2) for extinction
P243 - Take precautionary measures against static discharge
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe mist or vapor
P264 - Wash face, hands and any exposed skin thoroughly after handling.
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 advice/attention.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.
 P312 - Call a physician if unwell.
 P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if unwell
 P330 - Rinse mouth
 P309 + P311 - If exposed or you feel unwell: Call a POISON CENTRE or doctor/physician
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P501 - Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Ethyl alcohol	64-17-5	60-100
Butane	106-97-8	10-30
Propane	74-98-6	5-10
2-Phenylphenol	90-43-7	0.1-1

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.
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 if symptoms occur.
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 if symptoms occur. Rinse mouth.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point	57 °F / 14 °C	Method	Seta closed cup
Flammability Limits in Air %		Upper	19.0
Suitable Extinguishing Media			Lower 3.3
Foam. Dry chemical. Water spray. Carbon dioxide (CO2).			
Specific hazards arising from the chemical			
Extremely flammable. Flame extension: >18 inches / >45 cm and Burnback: 6 inch / 15 cm. Solvent vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.			
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) -	2		
NFPA	Health 2	Flammability 3	Instability 0
HMIS	Health 2	Flammability 3	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. 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	Use clean non-sparking tools to collect absorbed material. 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 vapors, mist or gas.
Storage	Keep away from heat and sources of ignition. Store in original container.
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
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Butane	TWA: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
2-Phenylphenol	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

Safety glasses with side -shields.

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

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 - Light yellow	Odor	Alcoholic and Floral
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	0.82
Evaporation Rate	30.55 (Butyl acetate=1)	Percent Volatile (Volume)	99.9
VOC Content (%)	88	VOC Content (g/L)	657
Vapor Pressure	497.4 mmHg @ 70°F	Vapor Density	1.9 (Air = 1.0)
Solubility	Completely soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	165 °F / 74 °C	Flammability (solid, gas)	No data available
Flash Point	57 °F / 14 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %		Upper 19.0 Lower 3.3	

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
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

Skin contact, Eye contact, Inhalation.

Primary Routes of Entry

Inhalation, Ingestion, Skin Absorption.

Acute Effects

Eyes

Causes eye irritation.

Skin

Causes skin irritation. 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.

Ingestion

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

Chronic Toxicity

Liver injury may occur. Contains a known or suspected reproductive toxin.

Target Organ Effects
Aggravated Medical Conditions

Central nervous system, Respiratory system, Reproductive System, Liver, Blood, Heart, Skin, Eyes.
Neurological disorders, Respiratory disorders, Heart disease, Blood disorders, Liver disorders,
Skin disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Ethyl alcohol	= 7060 mg/kg (Rat)	no data available	= 124.7 mg/L (Rat) 4 h	no data available	no data available
Butane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
Propane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
2-Phenylphenol	= 1049 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.949 mg/L (Rat) 1 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethyl alcohol	no data available	no data available	yes	no data available	eyes, respiratory system, CNS, liver, skin, blood, reproductive system
Butane	no data available	no data available	no data available	no data available	CNS, heart
Propane	no data available	no data available	no data available	no data available	CNS, heart
2-Phenylphenol	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Ethyl alcohol	A3	Group 1	Known	X	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
2-Phenylphenol	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
Ethyl alcohol	no data available	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50 9268 - 14221 mg/L 48 h EC50= 10800 mg/L 24 h EC50= 2 mg/L 48 h	-0.32
Butane	no data available	no data available	no data available	no data available	2.89
Propane	no data available	no data available	no data available	no data available	2.3
2-Phenylphenol	EC50 = 0.85 mg/L Desmodemus subspicatus 72 h	LC50 = 3.4 mg/L Pimephales promelas 96 h LC50 = 2.74 mg/L Lepomis macrochirus 96 h LC50 = 2.75 mg/L Oncorhynchus mykiss 96 h LC50 = 5.8 mg/L Poecilia reticulata 96 h	EC50 = 2.05 mg/L 5 min	EC50 1 - 2.5 mg/L 48 h	3.18

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of contents/container in accordance with local regulation.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
Hazard Class
Description

DOT

Consumer commodity
ORM-D
Consumer commodity ,ORM-D,

TDG

Proper shipping name Aerosols
 Hazard Class 2.1
 UN-No UN1950

ICAO

UN-No UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2.1
 Shipping Description Aerosols,UN1950 LTD QTY

IATA

UN-No UN1950
 Proper Shipping Name Aerosols, flammable
 Hazard Class 2.1
 ERG Code 10L
 Shipping Description UN1950,Aerosols, flammable,2.1 LTD QTY

IMDG/IMO

Proper Shipping Name Aerosols
 Hazard Class 2.1
 UN-No UN1950
 EmS No. F-D, S-U
 Shipping Description UN1950, Aerosols,2.1 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-Phenylphenol	90-43-7	0.1-1	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ethyl alcohol	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Propane	Not applicable	Not applicable
2-Phenylphenol	Not applicable	Not applicable

Canada

This product may not be commercially placed on the market in Canada.

WHMIS Hazard Class

Not applicable

16. OTHER INFORMATION

Prepared By Rachael Mohochi
 Supersedes Date 02/10/2009
 Issuing Date 02/28/2013
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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