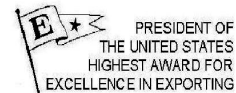




PHARMACEUTICAL INNOVATIONS, INC.

897 Frelinghuysen Avenue • Newark, New Jersey 07114-2195 • (973) 242-2900 • Fax: (973) 242-0578



MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name: Pharmaceutical innovations, Inc.
Address: 897 Frelinghuysen Avenue, Newark, New Jersey USA 07114
Telephone: 973-242-2900
Emergency: 973-242-2900
Use(s): Anti-bacterial
MSDS Date: 12/02/2013

Section 2: HAZARDS INFORMATION

Emergency Overview

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

Appearance: Clear Thin Liquid upon dilution; **Physical state:** Liquid.

Odor: Perfumed.

Potential Health Effects

Acute toxicity:

Eyes: May be corrosive
Skin: May cause irritation
Inhalation: May cause irritation
Chronic Effects: No known effect based on information supplied

Aggravated Medical Conditions : None known.

Environmental hazard : See Section 12 for additional Ecological Information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS NO	OSHA PEL	ACGIH TLV
Alkyl Dimethyl Benzyl ammonium chloride	68424-85-1	NL	NL
Octyl Decyl Dimethyl Ammonium Chloride	68424-95-3	NL	NL
Dioctyl Dimethyl Ammonium Chloride	5538-94-3	NL	NL
Didecyl Dimethyl Ammonium Chloride	7173-51-5	NL	NL

Section 4: FIRST AID MEASURES

Eye contact: Immediately flush eyes with water for a least 15 minutes while holding eyelids open.

Skin contact: Wash off skin and remove contaminated clothing. Wash contaminated clothing before use.

Inhalation: Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.

Ingestion: If swallowed, consult a physician immediately. DO NOT induce vomiting. Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: FIRE-FIGHTING MEASURES

Flammable Properties: Not flammable

Flash Point: None

Suitable Extinguishing Media: Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

Hazardous Combustion Products: If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides and Ammonia vapors.

PI-Spray II ANTIBACTERIAL SOLUTION

Explosion Data:

Sensitivity to Mechanical Impact: none

Sensitivity to Static Discharge: none

Protective Equipment and Precautions for Firefighters: Use NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

NFPA: Health Hazard 0 **Flammability** 0 **Stability** 0

HMIS: Health Hazard 3 **Flammability** 0 **Physical Hazard** 0

Section 6: Accidental Release Measure

Accidental Release: Contain spills and leaks to prevent discharge to the environment. Ventilate immediately.

Spills: Soak up with absorbent, shovel into waste containers. Flush area with water.

Waste disposal method: Material collected with absorbent may be disposed in a permitted landfill in accordance with federal, state and local regulations.

Personal precautions: Ensure adequate ventilation

Environmental precautions: Try to prevent the material from entering drains or water courses.

Methods for Containment: Dike large spills and pump to suitable containers. Flush area with water.

Methods for cleaning up: Mop up small spills and flush to sewer with plenty of water.

Section 7: HANDLING & STORAGE

Advice on safe handling: KEEP OUT OF REACH OF CHILDREN. DANGER: Do not contaminate water, food, or feed. Do not get in eyes, on skin or on clothing Remove and wash contaminated clothing before. Avoid overheating or freezing, store in a cool, well ventilated area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Care should be taken to avoid Eye contact

Protective Gloves: Not Required

Other Protective Measures: Not Required

Ventilation: Not Required

Work/Hygienic Practices: Normal

Review Date: 12/02/2013

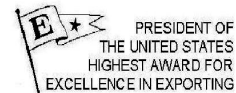
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MATERIAL SAFETY DATA SHEET

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Values
pH:	6.1 ± 0.25
Melting/ Freezing Point:	ND
Freezing Point:	
Boiling Point/ Boiling Range:	100° C
Flash Point:	ND
Evaporation Rate:	ND
Flammability (Solid, Gas):	ND
Flammability Limits in Air:	ND

Upper Flammability Limit:
Lower Flammability Limit:

Exposure limits:	No information available
Lower	
Upper	
Vapor Pressure:	No information available
Vapor Density:	No information available
Specific gravity:	1.002 g/cc
Water solubility:	Completely soluble
Solubility in other solvents:	No information available
Partition coefficient: n-octanol/water:	No information available
Auto ignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity, kinematic:	No information available
Viscosity, dynamic:	No information available
Explosive properties:	No information available
Oxidizing Properties:	No information available

9.2 Other information

Softening point:	No information available
Molecular Weight:	No information available
VOC Content(%):	No information available
Density VALUE:	1.005g/cc
Bulk Density VALUE:	No information available

Section 10: STABILITY & REACTIVITY

Stability:	Stable
Incompatible Products:	Strong oxidizing agents, reducing agent Anionic
Conditions to Avoid:	Unknown
Hazardous Decomposition Products:	normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous Oxides. Ammonia vapors
Hazardous Polymerization:	Hazardous polymerization does not occur

Carcinogenicity:

Not listed as carcinogenic according to IARC, NTP or OSHA.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information: Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl (C12-16) dimethylbenzylammonium chloride	426 mg/kg (Rat)		
Didecylidimethylammonium chloride	84 mg/kg (Rat)		

PI-Spray II ANTIBACTERIAL SOLUTION

Chronic toxicity

Target Organ Effects: None known

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated
Environmental Fate: This product is biodegradable.

Section 13: DISPOSAL CONSIDERATIONS

CONTAINER DISPOSAL - Do not reuse empty container. Triple rinse empty container with water. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available. For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Section 14: TRANSPORT INFORMATION

Dot:	Not regulated
Proper shipping name:	Antibacterial Solution, Not Regulated
TDG	Not regulated
ICAO/IATA	Not regulated
IMDG / IMO	Not regulated
ADN	Not regulated

Section 15: REGULATORY INFORMATION

TSCA:	Complies
DSL:	Complies
NDSL:	Complies
EINECS:	Complies
ELINCS:	-
ENCS:	-
IECSC:	Complies
KECL:	Complies
PICCS:	Complies
AICS:	Complies

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 Commercial Chemical Substances/EU 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

AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

The information provided on this MSDS 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.

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