


unisource®
MATERIAL SAFETY DATA SHEET
VORTEX Non-Acid Disinfectant Bowl and Restroom Cleaner

Version Number: 1

Preparation date: 2005-08-15

PRODUCT IDENTIFICATION	
Product name:	VORTEX Non-Acid Disinfectant Bowl and Restroom Cleaner
MSDS #:	MS0600164
Product code:	U22662, U22663
Recommended use:	Restroom Care .
Manufacturer, importer, supplier: Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com	
Emergency telephone number:	1-888-660-6737

HAZARD IDENTIFICATION	
EMERGENCY OVERVIEW	
• CAUTION	
• CAUSES EYE IRRITATION	
Principle routes of exposure:	• Eyes • Skin • Inhalation
Eye contact:	• Moderately irritating to the eyes
Skin contact:	• May be mildly irritating to skin
Inhalation:	• None known
Ingestion:	• None known

CONCENTRATION/INFORMATION ON INGREDIENTS			
HAZARDOUS COMPONENTS			
Ingredient	CAS #	Weight %	
Isopropyl alcohol	67-63-0	1 - 5 %	
N-alkyl dimethyl benzyl ammonium chlorides	68391-01-5	0.1 - 1.5%	
N-alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	<0.1%	

HAZARDOUS COMPONENTS

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5000 mg/kg (rat)	12800 mg/kg (rabbit)	16000 ppm/8H (rat)
N-alkyl dimethyl benzyl ammonium chlorides	Not available	Not available	Not available
N-alkyl dimethyl ethylbenzyl ammonium chlorides	Not available	Not available	Not available

FIRST AID MEASURES	
Eye contact:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes
Skin contact:	• Flush immediately with plenty of water • Get medical attention if irritation occurs
Inhalation:	• No specific first aid measures are required
Ingestion:	• No specific first aid measures are required
Aggravated Medical Conditions:	• Persons with pre-existing skin disorders may be more susceptible to irritating effects

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FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	• Dry chemical, water spray, foam, carbon dioxide
Specific hazards:	• Although this product has a flash point below 200 Deg. F, it is an aqueous solution containing an alcohol and does not sustain combustion
Unusual hazards:	• None known
Specific methods:	• No special methods required
Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
Extinguishing media which must not be used for safety reasons: • None	

ACCIDENTAL RELEASE MEASURES	
Personal precautions:	• Put on appropriate personal protective equipment (see Section 8.)
Environmental precautions and clean-up methods:	• Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

HANDLING AND STORAGE	
Handling:	• Avoid contact with skin and eyes FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:	• Protect from freezing • Keep tightly closed in a dry, cool and well-ventilated place • Keep out of the reach of children

EXPOSURE CONTROL / PERSONAL PROTECTION	
Engineering measures to reduce exposure: • No special ventilation requirements • General room ventilation is adequate	
Personal Protective Equipment	
Eye protection:	• Safety glasses with side-shields
Hand protection:	• No special requirements under normal use conditions
Skin and body protection:	• No special requirements under normal use conditions
Respiratory protection:	• No special requirements under normal use conditions
Hygiene measures:	• Handle in accordance with good industrial hygiene and safety practice

Personal protective equipment

Ingredient	CAS #	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	400 ppm (STEL) 200 ppm (TWA)	980 mg/m ³ 400 ppm	1225 mg/m ³ (STEL) 980 mg/m ³ (TWA)

PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Blue	Odor:	Floral
Specific gravity:	1.0	pH:	6.5-7.5
Dilution pH:	No information available.	Density:	8.33
Bulk density:	No information available	Vapor density:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
VOC:	2.3	Viscosity:	No information available
Solubility in other solvents:	No information available		
Partition coefficient (n-octanol/water):	No information available		
Boiling point/range:	Not determined		

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Melting point/range:	Not determined
Flash point:	>142 (°F) >61.1 (°C)
Decomposition temperature:	Not determined
Autoignition temperature:	No information available

PHYSICAL AND CHEMICAL REACTIVITY	
Stability:	• The product is stable
Polymerization:	• Hazardous polymerisation does not occur.
Hazardous decomposition products:	• None reasonably foreseeable.
Conditions to avoid:	• Do not freeze

TOXICOLOGICAL INFORMATION	
Acute toxicity	Oral LD50 estimated to be greater than 5000 mg/kg Dermal LD50 estimated to be > 2000 mg/kg
Component Information:	• See Section 3
Chronic toxicity:	• None known
Specific effects	
Carcinogenic effects:	• None known
Mutagenic effects:	• None known
Reproductive toxicity:	• None known
Target organ effects:	• None known

ENVIRONMENTAL INFORMATION	
Environmental Information:	• no data available

DISPOSAL CONSIDERATIONS	
Waste from residues / unused products:	• Dispose of according to all federal, state and local applicable regulations

TRANSPORT INFORMATION	
DOT/TDG:	• Please refer to the Bill of Lading/receiving documents for up to date shipping information

REGULATORY INFORMATION	
International Inventories	
All components of this product are listed on the following inventories: U.S.A. (TSCA).	
U.S. Regulations	
EPA Reg. No. : 5736-102-82440	
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65	
SARA 311/312 Hazard Categories	
Immediate:	Y
Delayed:	N
Fire:	Y
Reactivity:	N
Sudden Release of Pressure:	N

Canada			
Ingredient	CAS #	NPRI Listed	
Isopropyl alcohol	67-63-0		

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WHMIS hazard class: Not for sale in Canada.

STATE RIGHT TO KNOW

Ingredient	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Water	7732-18-8	-	-	-	-	-	-
Isopropyl alcohol	67-63-0	Listed	Listed	Listed	Listed	Listed	Listed
N-alkyl dimethyl benzyl ammonium chlorides	68391-01-5	-	-	-	-	-	-
N-alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	-	-	-	-	-	-

CERCLA/SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Isopropyl alcohol	67-63-0	1-5 %	100		Listed.

CAA HAP/CAA ODS/CWA Priority Pollutants: None

ADDITIONAL INFORMATION						
HMIS	Health	1	Fire Hazard	1	Reactivity	0
NFPA	Health:	1	Flammability:	1	Instability:	0
Reason for revision:		Not applicable				
Prepared by:		NAPRAC				
Additional advice:		None				
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