



MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: Dish San Sanitizer		DATE: October 28, 2011			
PRODUCT NUMBER:		DATE PREPARED: October 28, 2011			
TRADE NAME: Dish San Sanitizer					
GENERAL USE: Disinfectant / Sanitizer					
CHEMICAL FAMILY: Quaternary Ammonium Compounds					
PRODUCT DESCRIPTION: Straw-colored liquid with a characteristic disinfectant odor.					
MANUFACTURER: EnvirOx LLC		SUPERSEDES: March 8, 2011			
ADDRESS (NUMBER, STREET, P.O. BOX) P.O. Box 2327, 1938 E. Fairchild St.		TELEPHONE NUMBER FOR INFORMATION / Customer Service 1-217-442-8596			
(CITY, STATE AND ZIP CODE) Danville, IL. 61834-2327		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  <div style="display: flex; justify-content: space-between; align-items: center;"> <div> 1-800-255-3924 North America Toll Free </div> <div> 1-813-248-0585 International </div> </div>			
COUNTRY USA					
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Benzyl-C12-18-alkyldimethyl ammonium chlorides	5-10	68391-01-5	269-919-4	C, Xn, N	R10,R21/22, R34, R50
C12-18-alkyl [(ethylphenyl) methyl] dimethyl ammonium chlorides.	5-10	68956-79-6	273-318-2	C,Xn, N	R10,R21/22, R34, R50
Notes: All SARA Title III materials have been reported. All ingredients contained in this formula are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. Proprietary non-hazardous ingredients not listed.					
SECTION 3 - HAZARDS IDENTIFICATION					
INHALATION: Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause headaches, dizziness, and drowsiness. Harmful if inhaled in high concentrations for prolonged periods.					
SKIN: Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to blistering, rash, and chemical burns. Harmful if absorbed through the skin.					
EYES: May cause moderate to severe eye irritation, with pain, redness and tearing, from splashing or contact with mists.					
INGESTION: May cause gastrointestinal irritation, blisters or burns of the mucosal membranes, and swelling of the larynx. Ingestion of very large quantities may lead to electrolyte and metabolic imbalances, circulatory collapse, and possible death.					
CARCINOGENICITY: <div style="display: flex; justify-content: space-between;"> <div>NTP? NO</div> <div>IARC MONOGRAPHS? NO</div> <div>OSHA REGULATED? NO</div> </div> <div style="display: flex; justify-content: space-between;"> <div>CALIFORNIA, Prop.65?</div> <div>NO</div> </div>					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, if possible. Call a poison control center or doctor for further treatment advice.					
EYES: Remove contact lenses if possible. Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.					
SKIN: Immediately flush with water. Remove contaminated clothing. Wash with soap and water. Obtain medical attention if blisters or burns occur, or if irritation is severe or persistent.					
INGESTION: Call poison control center (Toll-Free at 1-800-222-1222 within the USA) or doctor immediately for treatment advice. Rinse out mouth with water if victim is conscious and alert to surroundings, then have victim sip water if able to swallow. Do not induce vomiting unless instructed by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Notes to physician Symptoms may be delayed. Treat symptomatically.					

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PRODUCT NAME: Dish San Sanitizer		DATE: October 28, 2011		
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SECTION 5 - FIRE FIGHTING MEASURES				
GENERAL HAZARDS: Not Flammable.				
EXTINGUISHING MEDIA: Carbon Dioxide or Dry Chemical - choose extinguishing media to fight surrounding fire.				
FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and turn-out gear when fighting any chemical fire.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: None applicable.				
HAZARDOUS COMBUSTION PRODUCTS: May include and are not limited to: Oxides of nitrogen. Ammonia. Hydrogen chloride.				
SECTION 6 - ACCIDENTAL RELEASE MEASURES				
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate non-essential personnel. Avoid contact with spilled material and/or damaged containers unless wearing appropriate personal protective equipment (See Section 8). Methods for containment: Stop leak if you can do so without risk. Prevent entry of large quantities of product into waterways, sewers, basements or confined areas. Methods for cleaning up: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Contact supplier for further cleanup and disposal advice. Never return spills in original containers for re-use.				
SECTION 7 - HANDLING AND STORAGE				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Use good industrial hygiene practices in handling this material. Avoid contact with material; wear Personal Protective Equipment (See Section 8). Keep out of the reach of children. Store in a closed container away from incompatible materials (See Section 10).				
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION				
HAZARDOUS COMPONENTS	NIOSH		ACGIH	OSHA
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Benzyl-C12-18-alkyldimethyl ammonium chlorides	NE	NE	NE	NE
C12-18-alkyl [(ethylphenyl) methyl] dimethyl ammonium chlorides.	NE	NE	NE	NE
PERSONAL PROTECTION				
RESPIRATORY PROTECTION: Local Ventilation such as fans are generally acceptable.. Approved respirators may be used if respiratory irritation occurs.				
PROTECTIVE GLOVES: Impervious protective gloves are recommended - especially for sustained contact. Neoprene is a good choice for glove material.				
EYE PROTECTION: Safety glasses with side shields are recommended where a splash hazard exists and as a good industrial practice.				
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: An impervious apron is recommended for situations where a splash hazard exists or when handling open containers.				
WORK / HYGIENIC PRACTICES: Wash hands with soap and water after contact and before eating, drinking, smoking, and using the restroom.				
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
APPEARANCE AND ODOR Straw-colored liquid with a characteristic disinfectant odor.		VAPOR PRESSURE NE		
pH 7.05		SPECIFIC GRAVITY (WATER = 1) 0.99 (8.28lbs/gal)		
BOILING POINT / BOILING RANGE 212°F		SOLUBILITY IN WATER Completely Soluble.		
FLASH POINT None (Cleveland open cup).		VISCOSITY 2.035 cSt @ 24°C		
FLAMMABLE LIMITS LEL: NA UEL: NA		VAPOR DENSITY (AIR = 1) >1 estimate.		
AUTOIGNITION TEMPERATURE NA		EVAPORATION RATE (WATER = 1) NA		

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PRODUCT NAME: Dish San Sanitizer		DATE: October 28, 2011	
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SECTION 10 - STABILITY AND REACTIVITY			
STABILITY STABLE X Stable under recommended storage conditions.		CONDITIONS TO AVOID: Incompatible substances.	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, reducing agents, acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May include and are not limited to: Oxides of nitrogen. Ammonia. Hydrogen chloride under fire conditions only.			
HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: None related to polymerization.	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Benzyl-C12-18-alkyldimethyl ammonium chlorides.	68391-01-5 269-919-4	> 2,500 mg/kg	NE
C12-18-alkyl [(ethylphenyl) methyl] dimethyl ammonium	68956-79-6 273-318-2	> 2,500 mg/kg	NE
SECTION 12 - ECOLOGICAL INFORMATION			
Ecotoxicity: Toxic to aquatic organisms in concentrated form; do not release large quantities of concentrated product into bodies of water or sewage systems. No ecological information is available for this blended product; it is known to be biodegradable, however, based on the ingredients used in its manufacture. Product contains no Priority Pollutants under the Clean Water Act.			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Biodegradable product may be flushed to sewage treatment facility (in small quantities - see Section 6) or landfill. Dispose of container and waste product according to State, Federal and Local laws.			
SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: Not regulated			
DOT HAZARD CLASS / Pack Group: None REFERENCE: 49CFR, IATA, IMDG UN / NA IDENTIFICATION NUMBER: None LABEL: None HAZARD SYMBOLS: None		IATA HAZARD CLASS / Pack Group: Not regulated IMDG HAZARD CLASS: None RID/ADR Dangerous Goods Code: None TDG Class / Pack Group: None	
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.			
SECTION 15 - REGULATORY INFORMATION			
TSCA (USA - Toxic Substance Control Act): This product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.			
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): <div style="display: flex; justify-content: space-between;"> <div> Acute Health: Yes Fire: No Reactive: No </div> <div> Chronic Health: No Sudden Release of Pressure: No </div> </div>			
313 REPORTABLE INGREDIENTS: None			
CERCLA (USA - Comprehensive Response Compensation and Liability Act): California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:		No reportable ingredients No reportable ingredients	
CPR (Canadian Controlled Products Regulations): This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B.			
IDL (Canadian Ingredient Disclosure List): Ingredients are listed as required on the CIDL.			
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on DSL or NDSL			
EINECS (European Inventory of Existing Commercial Chemical Substances):		Referenced.	
WGK Water Quality Index: 1			



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PRODUCT NAME:	Dish San Sanitizer	DATE:	October 28, 2011
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SECTION 16 - OTHER INFORMATION

Legend: NA=Not Available, NE= Not Established, ND= Not determined, C= Carcinogen, NTP= National Toxicology Program.

HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	2 0 0 B*	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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**Gloves and Safety Glasses are recommended but not required*

REVISION SUMMARY:

Revised to ANSI. protocols 10/28/2011 supersedes 3/8/2011 issue.LB

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.