



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Dish San RTU		<b>DATE:</b> October 28, 2011	
<b>PRODUCT NUMBER:</b> 164			
TRADE NAME: Dish San RTU GENERAL USE: Disinfectant / Sanitizer CHEMICAL FAMILY: Quaternary Ammonium Compounds PRODUCT DESCRIPTION: Clear Straw Colored Liquid With A Slight Odor.			
<b>MANUFACTURER:</b> EnvirOx LLC		<b>DATE PREPARED:</b> October 28, 2011	
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> P.O. Box 2327, 1938 E. Fairchild St.		<b>SUPERSEDES:</b> March 8, 2011	
(CITY, STATE AND ZIP CODE) Danville, IL. 61834-2327		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> 1-217-442-8596	
<b>COUNTRY</b> USA		<b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b>	
			1-800-255-3924 North America Toll Free
			1-813-248-0585 International

## SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Benzyl-C12-18-alkyldimethyl ammonium chlorides	<1	68391-01-5	269-919-4	C, Xn, N	R10,R21/22, R34, R50
C12-18-alkyl [(ethylphenyl) methyl] dimethyl ammonium chlorides.	<1	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 may irritate the throat and respiratory tract. High vapor concentrations may cause headaches, dizziness, and drowsiness.

**SKIN:**  
Prolonged and/or repeated exposures can cause drying, defatting and dermatitis; rash may occur in some cases.

**EYES:**  
May cause mild to moderate eye irritation from splashing or contact with mists.

**INGESTION:**  
May cause stomach distress, nausea or vomiting. Irritation of mucosal membranes may occur.

**CARCINOGENICITY:**

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65?	NO	

## 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. Call a poison control center or doctor for treatment advice.

**SKIN:**  
Flush area with clean water. Remove contaminated clothing. Wash with soap and water. Obtain medical attention if irritation persists.

**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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## 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/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	TLV/TWA ppm	TWA mg/m <sup>3</sup>	TWA ppm	PEL mg/m <sup>3</sup>
<b>Benzyl-C12-18-alkyldimethyl ammonium chlorides</b>	NE	NE	NE	NE	NE	NE	NE	NE
<b>C12-18-alkyl [(ethylphenyl) methyl] dimethyl ammonium chlorides.</b>	NE	NE	NE	NE	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:**  
Not generally required. An impervious apron is recommended for situations where a splash hazard exists.

**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

<b>APPEARANCE AND ODOR</b> Clear Straw Colored Liquid With A Slight Odor.	<b>VAPOR PRESSURE</b> NE
<b>pH</b> 7.05	<b>SPECIFIC GRAVITY (WATER = 1)</b> 1.0 (8.34lbs/gal)
<b>BOILING POINT / BOILING RANGE</b> 212°F	<b>SOLUBILITY IN WATER</b> Completely Soluble.
<b>FLASH POINT</b> >100°C Cleveland open cup.	<b>VISCOSITY</b> Water thin.
<b>FLAMMABLE LIMITS</b> LEL: NE UEL: NE	<b>VAPOR DENSITY (AIR = 1)</b> NE
<b>AUTOIGNITION TEMPERATURE</b> NE	<b>EVAPORATION RATE (WATER = 1)</b> NA

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<b>SECTION 10 - STABILITY AND REACTIVITY</b>			
STABILITY		STABLE X	CONDITIONS TO AVOID:
Stable under recommended storage conditions.		Incompatible substances. Sources of ignition.	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, reducing agents, acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May include and are not limited to: Oxides of nitrogen, chlorine.			
HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: None related to polymerization.	
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
<b>Benzyl-C12-18-alkyldimethyl ammonium chlorides.</b>	<b>68391-01-5 269-919-4</b>	<b>&gt; 2,500 mg/kg</b>	<b>NE</b>
<b>C12-18-alkyl [(ethylphenyl)methyl] dimethyl ammonium</b>	<b>68956-79-6 273-318-2</b>	<b>&gt; 2,500 mg/kg</b>	<b>NE</b>
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>			
Undiluted product may pose slight risk to aquatic environments in large quantities. No ecological study 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.			
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>			
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.			
<b>SECTION 14 - TRANSPORT INFORMATION</b>			
PROPER SHIPPING NAME: <b>Not regulated</b>			
DOT HAZARD CLASS / Pack Group: <b>None</b>		IATA HAZARD CLASS / Pack Group: <b>Not regulated</b>	
REFERENCE: <b>49CFR, IATA, IMDG</b>		IMDG HAZARD CLASS: <b>None</b>	
UN / NA IDENTIFICATION NUMBER: <b>None</b>		RID/ADR Dangerous Goods Code: <b>None</b>	
LABEL: <b>None</b>		TDG Class / Pack Group: <b>None</b>	
HAZARD SYMBOLS: <b>None</b>			
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.			
<b>SECTION 15 - REGULATORY INFORMATION</b>			
TSCA (USA - Toxic Substance Control Act): <b>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.</b>			
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health: <b>No</b>		Chronic Health: <b>No</b>	
Fire: <b>No</b>		Sudden Release of Pressure: <b>No</b>	
Reactive: <b>No</b>			
<b>313 REPORTABLE INGREDIENTS: None</b>			
CERCLA (USA - Comprehensive Response Compensation and Liability Act):		<b>No reportable ingredients</b>	
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:		<b>No reportable ingredients</b>	
<b>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: None</b>			
IDL (Canadian Ingredient Disclosure List):		<b>Ingredients are listed as required on the CIDL.</b>	
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):		<b>Listed on DSL or NDSL</b>	
EINECS (European Inventory of Existing Commercial Chemical Substances):		<b>Referenced.</b>	
WGK Water Quality Index:		<b>1</b>	

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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:	0 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

**MSDS Prepared by:**

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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.