



# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Identifier:** Dish San Concentrate

**Other means of identification**

**Product code:** 164

**Product registration number:** 10324-63-69268

**Recommended use:** Sanitizer/Disinfectant

**Recommended restrictions:** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer/Supplier** EnviroX LLC

**Address** P.O. Box 2327

1938 E. Fairchild St.

Danville, IL 61834-2327 USA

**Telephone** 1-217-442-8596

**Emergency Phone Number:** ChemTel Inc. 800-255-3924, +1-813-248-0585

## SECTION 2 –HAZARD(S) IDENTIFICATION

**Physical hazards:** Not classified.

**OSHA defined hazards:** Not classified.

**Classification of the substance or mixture:**



Serious Eye Damage/eye irritation Category 1

Skin Corrosion/Irritation Category 1C

Acute Toxicity (oral) Category 4

**Signal Word –** Danger

**Hazard statement:** Harmful if swallowed. Causes severe skin burns and eye damage.

**Precautionary statements:**

**Prevention:** Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash effected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye, face and foot protection

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

**Storage:** Keep container tightly closed. Keep only in original container. Store locked up.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC):** None known.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Mixtures**

**Chemical Name**

**CAS Number**

**%**

Alkyl (C12 68%, C14 32%) dimethyl ethylbenzyl ammonium chloride

68956-79-6

5

Alkyl (C14 60% C18 30%, C12 5%, C18 5%) dimethyl benzyl ammonium chloride

68391-01-5

5

Other Components Below Reportable Levels

87.5

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 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, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**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 eye. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed:** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Indication of immediate medical attention and special treatment needed:** Probable mucosal damage may contraindicate the use of gastric lavage.

**General information:** Show this Safety Data Sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

## SECTION 5 - FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health (including carbon oxides and nitrogen oxides) may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES:

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:** This product is miscible in water.

**Large Spills:** Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal. Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions:** Avoid discharge into drains, water courses or onto the ground. Avoid contact with spilled material with soil.

**Precautions for safe handling:** Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on

## SECTION 7 - HANDLING AND STORAGE

clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

**Conditions for safe storage, including any incompatibilities:** Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to

maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.

#### Skin protection

**Hand protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other:** Protective work clothing.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical State: Liquid Form: Liquid Color: Clear to straw color.	Explosive limit - lower (%)	Not available.
Odor:	Chlorine-like.	Explosive limit - upper (%)	Not available.
Odor threshold:	Not available.	Vapor pressure:	23 hPa
pH	6-8	Vapor density:	Not available.
Melting point/freezing point:	Not available.	Relative Density:	1.0g/ml, 8.3lbs/gal (25°C)
Initial boiling point and boiling range	>212 °F / 100 °C	Solubility:	Water soluble
Flash point:	Does not flash	Partition coefficient (noctanol/water):	Not available.
Evaporation rate:	Not available.	Auto-ignition temperature:	Not available.
Flammability (solid, gas):	Not applicable	Decomposition temperature:	Not available.
Flammability limit – lower (%)	Not available.	Viscosity:	Low viscosity
Flammability limit – upper (%)	Not available.	Explosive Properties	Not Explosive
		Oxidizing Properties	Not Oxidizing

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable and non-reactive under normal conditions of use, storage and transport.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** Keep away from heat, sparks and open flame. Contact with incompatible materials.

**Incompatible materials:** Anionic surfactants

**Hazardous decomposition products:** Oxides of carbon and nitrogen

## SECTION 11 - TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.

**Skin contact:** Corrosive. Causes severe skin burns.

**Eye Contact:** Corrosive. Causes serious eye damage.

**Ingestion:** Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.

**Symptoms related to the physical, chemical and toxicological characteristics:** Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

## Information on toxicological effects

### Acute toxicity:

Acute oral:	LD <sub>50</sub> >2,500 mg/kg
Acute dermal:	LD <sub>50</sub> >2,000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

**Skin corrosion/irritation** Corrosive. Causes severe skin burns.

**Serious eye damage/eye irritation** Corrosive. Causes serious eye damage.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal instructions** PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Non-refillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

## SECTION 14 - TRANSPORT INFORMATION

### DOT

<b>UN Number</b>	UN1903
<b>UN proper shipping name</b>	Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compound)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	8
<b>Packing Group</b>	III
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

<b>Special Provisions</b>	IB3, T4, TP1
<b>Packaging Exceptions</b>	154
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241

**IATA**

<b>UN Number</b>	UN1903
<b>UN proper shipping name</b>	Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compound)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	- III
<b>Packing Group</b>	No.
<b>Environmental hazards</b>	8L
<b>ERG Code</b>	
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

<b>UN Number</b>	UN1903
<b>UN proper shipping name</b>	Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compound)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	
<b>Marine Pollutant</b>	No
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> Not Established	

**SECTION 15 - REGULATORY INFORMATION**

**US federal regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – Yes
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** Not listed

**SARA 311/312 Hazardous chemical** No Chemical

**SARA 313 (TRI reporting)** Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**FIFRA Information**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**Signal word** DANGER

**Hazard statement**

Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not regulated

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

**US. Rhode Island RTK**

Not regulated

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## SECTION 16 - OTHER INFORMATION

**Revision Date** 9-May-2017

**Disclaimer:** EnvirOx LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.