

# ARREX 100

UNI-KEM CHEMICALS, INC.

802 Wm. Leigh Drive  
Tullytown, PA 19007  
Phone—215-269-1800  
Fax—215-269-9855

**GENERAL DESCRIPTION:** ARREX-100 is recommended for the sanitizing, disinfecting, and odor controlling requirements in food plants, dairy farms, and in food service operations where spillage, waste disposal, and reusable utensils frequently create unsanitary conditions. No potable rinse is required. ARREX-100 is effective against most pathogenic bacteria and guards against mold and bacterial buildup when used on and around equipment, as well as on floors and walls. ARREX-100 is also effective against the Human Corona Virus, which is linked to the SARS virus.

## PHYSICAL PROPERTIES:

Chemical Composition..... Sanitizers; penetrating agents  
.....Deodorizers  
Appearance: ..... Clear amber liquid  
pH: ..... 7.0  
Specific Gravity: ..... 1.008  
Stability: ..... 1 Year @ Ambient Temperature  
Rinsing: ..... Complete  
Foaming: ..... Moderate

## DISINFECTANT PROPERTIES

ARREX-100 attacks a wide range of pathogenic bacteria including *S. typhosa*, *Staph aureus* (antibiotic resistant variations), *E. coli*, *S. choleraesuis*, *A. aerogenes*. PHENOL COEFFICIENT 26 A.O.A.C. against *Staphylococcus aureus*, *Salmonella typhosa*, *Streptococcus pyogenes*, *Salmonella pullorum* and *Salmonella schottmulleri*. ARREX-100 when used on environmental inanimate, hard surfaces at 3.5 ounces per 5 gallons of water is effective against influenza A2, herpes simplex, adenovirus type 5 and vaccinia viruses.

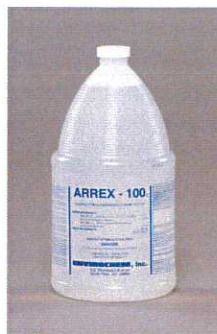
## DIRECTIONS FOR USE:

**HOUSEHOLD:** For sanitizing and disinfecting floors, walls, and inanimate hard surfaces. For schools, homes, locker rooms, garbage pails, sink tops, corridors, classrooms, offices and shower stalls. Apply solution with mop or cloth. Sanitize with 1 ounce to 4 gallons of water.

Disinfect with 3 ounces to 5 gallons of water. Kills *Staphylococcus aureus* and *Salmonella choleraesuis*. For heavily soiled or contaminated areas, a pre-cleaning step is recommended.

**HOSPITALS:** For floors, walls and other hard surfaces. In nursing homes, institutions, as well as sink tops, garbage pails, telephones and restrooms, use 3.5 ounces per 5 gallons of water. Apply with cloth, mop, or sponge. At this level ARREX-100 is effective against *Pseudomonas aeruginosa* PRd-10.

**SANITIZATION** - Recommended for use in restaurants, dairies, and bars. When used as directed Arrex-100 is an effective sanitizer against *Escherichia coli* (ATCC 11229), *Escherichia coli* 0157:H7 (ATCC 43895), *Staphylococcus aureus* (ATCC 6538), *Yersinia enterocolitica* (ATCC 23715), *Listeria monocytogenes* (ATCC 35152), *Salmonella typh* (ATCC 6539), *Shigella sonnei* (ATCC 11060), *Vibrio cholera* (ATCC 14035), Methicillin resistant *Staphylococcus aureus* (MRSA) (ATCC 33592), Vancomycin resistant *Enterococcus faecalis* (VRE) (ATCC 51299), and *Campylobacter jejuni* (ATCC 29428).



Remove all gross food particles and soil from areas which are to be sanitized with a good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with a potable water rinse. Prepare a fresh solution daily or more frequently as soil is apparent. To sanitize pre-cleaned and potable water-rinsed, nonporous, public eating establishment and dairy food contact surfaces: prepare a 200 ppm active quaternary solution by adding 1 ounce Arrex-100 to 4 gallons of water, 2 1/2 ounces to 10 gallons of water, or 5 ounces to 20 gallons of water.

**To sanitize** public eating establishment surfaces (counters, tables, finished woods or plastic cutting boards), apply a 200 ppm active quaternary solution with a cloth, sponge, low pressure coarse sprayer or hand pump trigger sprayer making sure that the surface remains wet for at least 60 seconds and let air dry. Do not rinse. Remove items, drain the use -solution from the surface and air dry. Do not rinse.

**To sanitize** mobile items in public eating establishments (drinking glasses, dishes, eating utensils), immerse in a 200ppm active quaternary solution for at least 60 seconds, making sure to immerse completely.

**FOOD PROCESSING EQUIPMENT:** For sanitization of previously cleaned food processing equipment and food utensils, dilute 1 ounce per 4 gallons of water to provide 200 ppm of active quaternaries. At this level NO POTABLE WATER RINSE IS REQUIRED.

**DAIRIES:** To sanitize dairy equipment such as tanks, lines, pails, and milk cans, first clean and rinse the equipment thoroughly. Then apply sanitizing solution containing 1 ounce to 4 gallons of water (200 ppm). At this level, NO POTABLE RINSE IS REQUIRED.

**RESTAURANTS AND BAR RINSE:** Dishes, glasses, silverware, cooking utensils, wash with soap or synthetic detergent; rinse thoroughly and immerse in a sanitizing solution containing 1 ounce to 4 gallons of water. NO TERMINAL POTABLE WATER RINSE IS REQUIRED.

## HANDLING PRECAUTIONS:

### CAUTION: WARNING KEEP OUT OF REACH OF CHILDREN

Contact with skin and eyes may cause severe irritation. Harmful if swallowed. Flood with water if splashed in eyes. Flush with water for 15 minutes and consult a physician immediately. If ingested, drink large amounts of milk, milk of magnesia or gelatin, or if these are not available, drink large amounts of water. Do not induce vomiting. Obtain prompt medical attention.

**CODE:** ARREX



# SAFETY DATA SHEET

Issuing Date 18-Apr-2013

Revision Date 18-Apr-2013

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name ARREX-100

### Other means of identification

Product Code(s) ARREX

UN-Number UN1760

Synonyms ARREX

### Recommended use of the chemical and restrictions on use

Recommended Use Institutional dish machine detergent

Uses advised against No information available

### Supplier's details

#### Supplier Address

Envirochem, Inc  
425 Whitehead Ave  
South River, NJ  
08882  
TEL: 732-238-6700

### Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.  
24 Hour Emergency Contact 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word Danger

#### Hazard Statements

- Causes severe skin burns and eye damage



**Appearance** Clear**Physical State** Liquid.**Odor** No information available**Precautionary Statements****Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

**General Advice**

- Immediately call a POISON CENTER or doctor/physician

**Eyes**

- 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 or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**Inhalation**

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

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**

- Store locked up

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

ARREX

Chemical Name	CAS-No	Weight %	Trade secret
Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	85409-23-0	3 -7	*
Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	3 -7	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

No information available

**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

**Environmental Precautions**

**Environmental Precautions** Dispose of contents/container to an approved waste disposal plant.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Stop leak if you can do it without risk

**Methods for Cleaning Up** Large spillage: Contain spilled material if possible. Wash away small spills with plenty of water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use.

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Rubber boots. Apron. Rubber gloves. Latex gloves  
**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Clear
<b>Odor</b>	No information available	<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ - Method</u></b>
pH	7.5	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	> 100 °C / > 212 °F	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	1.22	None known
Water Solubility	100%	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known

Decomposition Temperature	No data available	None known
Viscosity	5 cps	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
<u>Other information</u>		
VOC Content (%)	No data available	

## 10. STABILITY AND REACTIVITY

### **Reactivity**

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

None under normal processing.

### **Conditions to avoid**

Incompatible products.

### **Incompatible materials**

Strong oxidizing agents.

### **Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

#### **Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl Dimethyl Benzyl Ammonium Chloride	= 240 mg/kg ( Rat )	-	-

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 4800 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Alkyl Dimethyl Benzyl Ammonium Chloride		LC50 96 h: 0.223 - 0.46 mg/L static (Lepomis macrochirus) LC50 96 h: 0.823 - 1.61 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 2.4 mg/L semi-static (Oryzias latipes) LC50 96 h: = 1.3 mg/L semi-static (Poecilia reticulata)		

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**DOT**

**UN-Number** UN1760  
**Proper shipping name** Corrosive liquids, n.o.s.  
**Hazard Class** 8  
**Packing Group** III  
**Description** UN1760, Corrosive liquids, n.o.s. (Quarternary Ammonium Chloride), 8, III  
**Emergency Response Guide Number** 154

**TDG**

**UN-Number** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**Packing Group** III  
**Description** UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III

**UN-Number** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.



Hazard Class	8
Packing Group	III
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III

**ICAO**

UN-Number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Description	UN1760, Corrosive liquid, n.o.s., 8, III

**IATA**

UN-Number	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
ERG Code	8L
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III

**IMDG/IMO**

UN-Number	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
EmS No.	F-A, S-B
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III

**RID**

UN-Number	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C9
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III

**ADR**

UN-Number	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C9
Tunnel Restriction Code	(E)
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III, (E)
ADR/RID-Labels	8

**ADN**

Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C9
Special Provisions	274
Description	UN1760, Corrosive liquid, n.o.s. (Quarternary Ammonium Chloride), 8, III
Limited Quantity	5 L

<b>15. REGULATORY INFORMATION</b>
-----------------------------------

**International Inventories**

TSCA	Complies
NDSL	Complies
EINECS	Complies

IECSC

Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 3	Flammability 0	Instability 1	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 3	Flammability 0	Physical Hazard 1	Personal Protection X

**Prepared By**

Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date**

18-Apr-2013

**Revision Date**

18-Apr-2013

**Revision Note**

Initial Release.

**General Disclaimer**

The information provided on this SDS 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.

---

End of Safety Data Sheet

