



<b>ICT-Infection Control Technology</b> Building F5 Freeport West, Clearfield , UT 84016	Toll-Free: 1-800-551-0735	<b>MSDS Code Number:</b>								
REVISION DATE: 01/01/2011 PRODUCT NAME: <p style="text-align: center;"><b>BI-ARREST 4</b>  <b>Phenolic Disinfectant Cleaner Concentrate</b></p>	 	<table border="1"> <thead> <tr> <th colspan="2">HMIS RATINGS</th> </tr> </thead> <tbody> <tr> <td>HEALTH</td> <td>3</td> </tr> <tr> <td>FLAMMABILITY</td> <td>1</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> </tr> </tbody> </table>	HMIS RATINGS		HEALTH	3	FLAMMABILITY	1	REACTIVITY	0
HMIS RATINGS										
HEALTH	3									
FLAMMABILITY	1									
REACTIVITY	0									

24 HOUR EMERGENCY RESPONSE NUMBER: CHEMTREC (800) 424-9300

## SECTION I: INGREDIENTS

MATERIAL	% BY WEIGHT	CAS #	TWA/TLV
WATER	76	7732-18-5	None established
O-BENZYL-P-CHLOROPHENOL	4.75	120-32-1	None established
O-PHENYLPHENOL	4.75	90-43-7	None established
ETHYLENE GLYCOL	3.4	107-21-1	mg/m3 (OSHA-PEL) 100 mg/m3 (ACGIH-Ceiling)
SODIUM HYDROXIDE	2.3	1310-73-2	2 mg/m3 (OSHA PEL) 2 mg/m3 (ACGIH-Ceiling)
SODIUM LAURYL SULFATE	2.1	151-21-3	None established
ISOPROPANOL	2.0	67-63-0	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
DODECYL BENZENE SULFONIC ACID	~2.0	27176-87-0	None established
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	2.5	64-02-8	None established
UREA	1.0	57-13-6	None established

## SECTION II: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b> Clear Pink Liquid <b>VISCOSITY</b> Not known <b>BOILING POINT</b> Not known <b>VAPOR DENSITY (Air=1)</b> Not known <b>PERCENT VOLATILE (by weight)</b> 80 <b>EVAPORATION RATE (Butyl Acetate=1)</b> Not known	<b>pH</b> 12 – 13 <b>ODOR</b> Phenolic but varies with fragrance added (if any) <b>MELTING OR FREEZING POINT</b> Not known <b>VAPOR PRESSURE (mm Hg)</b> Not known <b>SOLUBILITY IN WATER</b> Soluble <b>SPECIFIC GRAVITY (WATER = 1)</b> 1.0
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## SECTION III: FIRE AND EXPLOSION INFORMATION

<b>FLASH POINT</b> > 200° F <b>EXTINGUISHING MEDIA:</b> ALCOHOL FOAM, CO <sub>2</sub> , DRY CHEMICAL, WATER <b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. <b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b> Products of combustion are toxic.	<b>AUTO IGNITION TEMPERATURE</b> Not known <b>LOWER EXPLOSION LIMIT (%)</b> Not known <b>UPPER EXPLOSION LIMIT (%)</b> Not known
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## SECTION IV: HEALTH EFFECTS INFORMATION

**PRIMARY ROUTES OF ENTRY:** Skin Contact, Eye Contact, and Inhalation  
**EFFECTS OF OVEREXPOSURE:** No human overexposure information available. Based on information available for components and similar materials, it is anticipated that direct contact will produce severe eye and skin irritation and/or chemical burns and possible irreversible damage. Solvent vapors or mists of product can produce irritation of the mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat, and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions.  
**OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:** No effects indicated.  
**EMERGENCY AND FIRST AID PROCEDURES:**  
**Eyes:** Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.

**Skin:** Wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

**Ingestion:** If swallowed, immediately give 3 – 4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

**Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

**CHEMICALS LISTED AS CARCINOGEN BY:**

NATIONAL TOXICOLOGY PROGRAM – NO

I.A.R.C. MONOGRAPHS – NO

OSHA – NO

**NOTE TO PHYSICIAN:**

Probable mucosal damage may contraindicate the use of gastric lavage. Take measures against circulatory shock. Breathing may need support, either through use of manual or mechanical measures. Administer oxygen if having difficulty with breathing.

**SECTION V: REACTIVITY INFORMATION**

**PRODUCT IS STABLE**

**CONDITIONS TO AVOID:** None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing or reducing agents.

**SECTION VI: SPILL AND DISPOSAL INFORMATION**

**STEPS TO BE TAKEN IN CASE OF MATERIAL SPILL OR RELEASE:**

CAUTION! Corrosive liquid. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

**WASTE DISPOSAL METHOD:**

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

**CONTAINER DISPOSAL:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

**SECTION VII: PERSONAL PROTECTION INFORMATION**

**ENGINEERING CONTROLS**

In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

**RESPIRATORY PROTECTION**

In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

**PROTECTIVE GLOVES**

Rubber or neoprene, to prevent skin contact.

**EYE PROTECTION**

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields where there is no potential for eye contact.

**OTHER PROTECTIVE EQUIPMENT**

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other as appropriate), to prevent skin contact.

**SECTION VIII: STORAGE AND HANDLING**

**PRECAUTIONS FOR STORAGE AND HANDLING:** Keep containers closed when not in use. Do not contaminate drinking water, food or feed by storage or disposal.

**SECTION XI: TRANSPORTATION**

MATERIAL: **Bi-Arrest 4**

DATE ISSUED: 11/26/2008

DOT IDENTIFICATION: UN1903

DOT HAZARD CLASSIFICATION: Rev. 8, PG II

DOT SHIPPING NAME: Disinfectant, Liquid, Corrosive, N.O.S.

(Sodium Hydroxide)

DOT LABEL: Corrosive

FORMULA: Mixture

CHEMICAL NAME: Mixture

CAS NO. Mixture

**KEEP OUT OF REACH OF CHILDREN**

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: G.P. SONIC</b> General Purpose Ultrasonic Cleaning Solution *CONCENTRATE*	
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>	
n-Alkyl (60% $C_{14}$ , 30% $C_{16}$ , 5% $C_{12}$ , 5% $C_{18}$ ) dimethyl benzyl ammonium chlorides: dimethyl ethylbenzyl ammonium chlorides ..... <u>% by weight</u> 3%	
Sodium Sulfite ..... 4%	
Propylene Glycol ..... 17%	
Inert ..... 76%	
<b>PHYSICAL DATA</b>	
<u>Appearance:</u> Blue clear	<u>Solubility in Water:</u> Complete
<u>Odor:</u> Fragrance Free	<u>Specific Gravity:</u> H <sub>2</sub> O=1 @25C 1.050
<u>Boiling Point °F:</u> N/A	<u>% Volatile by at</u>
<u>Freezing Point °F:</u> N/A	<u>@105°C/2hrs.:</u> N/A
<u>Vapor Pressure:</u> N/A	<u>Evaporation Rate</u>
<u>Vapor Density:</u> N/A	<u>(ether=1)</u> N/A
	<u>pH:</u> 06.9
<b>FIRE &amp; EXPLOSION DATA</b>	
Flash Point:	NON FLAMMABLE
Extinguishing Media:	Water, CO <sub>2</sub> , Dry Chemical, Foam.
Unusual Fire or Explosion Hazard	N/A
Special Fire Fighting Procedure:	N/A
<b>HEALTH HAZARD DATA for CONCENTRATE</b>	
<b>EYES &amp; SKIN:</b> Irritating to skin with extended or repeated contact.	
<b>ACUTE ORAL TOXICITY:</b> None Known	
<b>ACUTE DERMAL TOXICITY:</b> None Known	

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use.
Ingestion:	DO NO INDUCE VOMITING: Drink large quantities of water: avoid alcohol. Consult a physician immediately.
Inhalation:	If vapors or mist cause irritation, remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	If a mist is present, use an organic vapor respirator with pre-filter with mist.
Local Exhaust:	Local ventilation
Other Equipment:	Not needed
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	None
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Evacuate area of nonessential personnel. Floors may become slippery. Use protective equipment. Contain liquid spills using a barrier of inert material such as sand or by diking area. Absorb spilled liquids using inert material. Scoop or shovel absorbed material or spilled solids into containers. Avoid creating a dust during transfer of solids. Prevent spilled product or contaminated wash water from entering drinking water supplies or streams.	
<b>SPECIAL INFORMATION</b>	
Waste disposal Procedures: check pH of product. If pH is less than 12.5, the waste product is not a federal hazardous waste according to U.S. EPA regulation 40 CFR 261.	

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: INSTRUMENT WASH</b> General Purpose Instrument Cleaner Solution *CONCENTRATE*	
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>	
	<u>% by weight</u>
Sodium Sulfite .....	4%
Propylene Glycol .....	17%
Inert .....	79%
<b>PHYSICAL DATA</b>	
<u>Appearance:</u> Blue clear	<u>Solubility in Water:</u> Complete
<u>Odor:</u> Fragrance Free	<u>Specific Gravity:</u> H <sub>2</sub> O=1 @25C 1.050
<u>Boiling Point °F:</u> N/A	<u>% Volatile by at</u>
<u>Freezing Point °F:</u> N/A	<u>@105°C/2hrs.:</u> N/A
<u>Vapor Pressure:</u> N/A	<u>Evaporation Rate</u>
<u>Vapor Density:</u> N/A	<u>(ether=1)</u> N/A
	<u>pH:</u> 06.9
<b>FIRE &amp; EXPLOSION DATA</b>	
Flash Point:	NON FLAMMABLE
Extinguishing Media:	Water, CO <sub>2</sub> , Dry Chemical, Foam.
Unusual Fire or Explosion Hazard	N/A
Special Fire Fighting Procedure:	N/A
<b>HEALTH HAZARD DATA for CONCENTRATE</b>	
<b>EYES &amp; SKIN:</b> Irritating to skin with extended or repeated contact.	
<b>ACUTE ORAL TOXICITY:</b> None Known	
<b>ACUTE DERMAL TOXICITY:</b> None Known	

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use.
Ingestion:	DO NO INDUCE VOMITING: Drink large quantities of water: avoid alcohol. Consult a physician immediately.
Inhalation:	If vapors or mist cause irritation, remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	If a mist is present, use an organic vapor respirator with pre-filter with mist.
Local Exhaust:	Local ventilation
Other Equipment:	Not needed
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	None
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Evacuate area of nonessential personnel. Floors may become slippery. Use protective equipment. Contain liquid spills using a barrier of inert material such as sand or by diking area. Absorb spilled liquids using inert material. Scoop or shovel absorbed material or spilled solids into containers. Avoid creating a dust during transfer of solids. Prevent spilled product or contaminated wash water from entering drinking water supplies or streams.	
<b>SPECIAL INFORMATION</b>	
Waste disposal Procedures: check pH of product. If pH is less than 12.5, the waste product is not a federal hazardous waste according to U.S. EPA regulation 40 CFR 261.	

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: OPTIZYME</b> Instrument Pre-Soak & Holding Solution			
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>			
COMPOSITION:	<u>TLV</u>	<u>PEL</u>	
PROTEASE (Enzyme Protein)	N/A	N/A	
PROPYLENE GLYCOL	N/A	N/A	
<b>PHYSICAL DATA</b>			
<u>Appearance:</u>	<u>Clear or Clear-Blue</u>	<u>Solubility in Water:</u>	<u>Complete</u>
<u>Odor:</u>	<u>Light, Clean</u>	<u>Specific Gravity:</u>	<u>1.01</u>
<u>Boiling Point °F:</u>	<u>N/A</u>	<u>% Volatile</u>	<u>N/A</u>
<u>Freezing Point °F:</u>	<u>N/A</u>	<u>Evaporation Rate</u>	
<u>Vapor Pressure:</u>	<u>N/A</u>	<u>(ether=1)</u>	<u>N/A</u>
<u>Vapor Density:</u>	<u>N/A</u>	<u>pH:</u>	<u>7.1</u>
<b>FIRE &amp; EXPLOSION DATA</b>			
Flash Point:	NON FLAMMABLE		
Extinguishing Media:	Apply Alcohol-Type or all purpose Type foam by manufacturers recommended techniques		
Unusual Fire or Explosion Hazard	NONE KNOWN		
Special Fire Fighting Procedure:	N/A		
<b>HEALTH HAZARD DATA for CONCENTRATE</b>			
<b>EYES:</b> May cause minimal irritation, seen as slight excess redness of the conjunctiva.			
<b>SKIN:</b> Repeated skin contact may result in the development of an allergic skin reaction.			
<b>ACUTE ORAL TOXICITY:</b> N/A			
<b>ACUTE DERMAL TOXICITY:</b> Skin, eye, irritation.			

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops.
Ingestion:	Promptly drink large quantities of milk, egg whites, gelatin solution or water: seek medical attention.
Inhalation:	Remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	NIOSH/OSHA device (approved for dusts, mist, fumes with TLV's below 0.05 mgm).
Local Exhaust:	Local Ventilation Suggested.
Other Equipment:	Under normal use conditions, no respiratory equipment is needed.
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	Burning can produce Carbon Monoxide and/or Carbon Dioxide
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Flood areas with large quantities water: wash to sewer if in accordance with local, state and federal regulations. Do not use methods that generate dust or aerosol.	
<b>SPECIAL INFORMATION</b>	
<b>Storage Precautions:</b> Avoid contamination of food or feedstuff. Keep container closed when not in use. Do not store below 0° for extended periods. Do not reuse containers. Triple rinse, puncture, and dispose of containers in a sanitary landfill or by incineration.	
<b>Disposal:</b> Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.	
<b>Signs &amp; Symptoms of Exposure:</b> Skin, eye, respiratory irritation.	
<b>Medical Conditions Aggravated by Exposure:</b> Allergy to enzyme protein.	
<b>Primary route of Entry:</b> Skin, Eye contact, Respiration.	

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: POWERFLUSH</b> Enzymatic Evacuation System Cleaning Solution		
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>		
	<u>TLV</u>	<u>PEL</u>
PROTEASE (Enzyme Protein)	N/A	N/A
PROPYLENE GLYCOL	N/A	N/A
<b>PHYSICAL DATA</b>		
<u>Appearance:</u>	<u>Lt. Red</u>	<u>Solubility in Water:</u> Complete
<u>Odor:</u>	<u>Light, Clean</u>	<u>Specific Gravity:</u> <sub>H20=1</sub> @25C 1.010
<u>Boiling Point °F:</u>	<u>N/A</u>	<u>% Volatile by at</u>
<u>Freezing Point °F:</u>	<u>N/A</u>	<u>@105°C/2hrs.:</u> N/A
<u>Vapor Pressure:</u>	<u>N/A</u>	<u>Evaporation Rate</u>
<u>Vapor Density:</u>	<u>N/A</u>	<u>(ether=1)</u> N/A
		<u>pH:</u> 7.1
		<u>pH in use:</u> 7.6
<b>FIRE &amp; EXPLOSION DATA</b>		
Flash Point:	NON FLAMMABLE	
Extinguishing Media:	Apply Alcohol-Type or all purpose Type foam by manufacturers recommended techniques	
Unusual Fire or Explosion Hazard	NONE KNOWN	
Special Fire Fighting Procedure:	N/A	
<b>HEALTH HAZARD DATA for CONCENTRATE</b>		
<b>EYES:</b> May cause minimal irritation, seen as slight excess redness of the conjunctiva. <b>SKIN:</b> Repeated skin contact may result in the development of an allergic skin reaction. <b>ACUTE ORAL TOXICITY:</b> N/A <b>ACUTE DERMAL TOXICITY:</b> Skin, eye, irritation.		

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops.
Ingestion:	Promptly drink large quantities of milk, egg whites, gelatin solution or water: seek medical attention.
Inhalation:	Remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	NIOSH/OSHA device (approved for dusts, mist, fumes with TLV's below 0.05 mgm).
Local Exhaust:	Local Ventilation Suggested.
Other Equipment:	Under normal use conditions, no respiratory equipment is needed.
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	Burning can produce Carbon Monoxide and/or Carbon Dioxide
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Flood areas with large quantities water: wash to sewer if in accordance with local, state and federal regulations. Do not use methods that generate dust or aerosol.	
<b>SPECIAL INFORMATION</b>	
<b>Storage Precautions:</b> Avoid contamination of food or feedstuff. Keep container closed when not in use. Do not store below 0° for extended periods. Do not reuse containers. Triple rinse, puncture, and dispose of containers in a sanitary landfill or by incineration. <b>Disposal:</b> Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. <b>Signs &amp; Symptoms of Exposure:</b> Skin, eye, respiratory irritation. <b>Medical Conditions Aggravated by Exposure:</b> Allergy to enzyme protein. <b>Primary route of Entry:</b> Skin, Eye contact, Respiration.	



# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

PRODUCT NAME: <b>POWERZYME</b> Instrument Pre-Soak & Holding Solution			
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>			
COMPOSITION:	<u>TLV</u>	<u>PEL</u>	
PROTEASE (Enzyme Protein)	N/A	N/A	
PROPYLENE GLYCOL	N/A	N/A	
<b>PHYSICAL DATA</b>			
<u>Appearance:</u>	<u>Clear or Clear-Blue</u>	<u>Solubility in Water:</u>	<u>Complete</u>
<u>Odor:</u>	<u>Light, Clean</u>	<u>Specific Gravity:</u>	<u>1.01</u>
<u>Boiling Point °F:</u>	<u>N/A</u>	<u>% Volatile</u>	<u>N/A</u>
<u>Freezing Point °F:</u>	<u>N/A</u>	<u>Evaporation Rate</u>	
<u>Vapor Pressure:</u>	<u>N/A</u>	<u>(ether=1)</u>	<u>N/A</u>
<u>Vapor Density:</u>	<u>N/A</u>	<u>pH:</u>	<u>7.1</u>
<b>FIRE &amp; EXPLOSION DATA</b>			
Flash Point:	NON FLAMMABLE		
Extinguishing Media:	Apply Alcohol-Type or all purpose Type foam by manufacturers recommended techniques		
Unusual Fire or Explosion Hazard	NONE KNOWN		
Special Fire Fighting Procedure:	N/A		
<b>HEALTH HAZARD DATA for CONCENTRATE</b>			
<b>EYES:</b> May cause minimal irritation, seen as slight excess redness of the conjunctiva.			
<b>SKIN:</b> Repeated skin contact may result in the development of an allergic skin reaction.			
<b>ACUTE ORAL TOXICITY:</b> N/A			
<b>ACUTE DERMAL TOXICITY:</b> Skin, eye, irritation.			

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops.
Ingestion:	Promptly drink large quantities of milk, egg whites, gelatin solution or water: seek medical attention.
Inhalation:	Remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	NIOSH/OSHA device (approved for dusts, mist, fumes with TLV's below 0.05 mgm).
Local Exhaust:	Local Ventilation Suggested.
Other Equipment:	Under normal use conditions, no respiratory equipment is needed.
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	Burning can produce Carbon Monoxide and/or Carbon Dioxide
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Flood areas with large quantities of water: wash to sewer if in accordance with local, state and federal regulations. Do not use methods that generate dust or aerosol.	
<b>SPECIAL INFORMATION</b>	
<b>Storage Precautions:</b> Avoid contamination of food or feedstuff. Keep container closed when not in use. Do not store below 0° for extended periods. Do not reuse containers. Triple rinse, puncture, and dispose of containers in a sanitary landfill or by incineration.	
<b>Disposal:</b> Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.	
<b>Signs &amp; Symptoms of Exposure:</b> Skin, eye, respiratory irritation.	
<b>Medical Conditions Aggravated by Exposure:</b> Allergy to enzyme protein.	
<b>Primary route of Entry:</b> Skin, Eye contact, Respiration.	

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: SURGICAL MILK</b> Corrosion Control Product	
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b> <b>NO HAZARDOUS INGREDIENTS</b> This product does not contain any chemicals requiring reporting under SARA 313	
<b>PHYSICAL DATA</b>	
<u>Appearance:</u> Milky White	<u>Solubility in Water:</u> Partial
<u>Odor:</u> Light Liquid	<u>Specific Gravity:</u> H <sup>2</sup> O=1 @25C .99
<u>Boiling Point °F:</u> 212°F 100°C	<u>% Volatile by at</u>
<u>Freezing Point °F:</u> N/A	<u>@105°C/2hrs.:</u> N/A
<u>Vapor Pressure:</u> N/A	<u>Evaporation Rate</u>
<u>Vapor Density:</u> (air = 1) 60-90°F	<u>(ether=1)</u> N/A
	<u>pH: concentrate</u> 6.80
	<u>pH in use:</u> 6.95
<b>FIRE &amp; EXPLOSION DATA</b>	
<u>Flash Point:</u>	NON FLAMMABLE
<u>Extinguishing Media:</u>	Water Fog, CO <sub>2</sub> , Dry Chemical, Foam.
<u>Unusual Fire or Explosion Hazard</u>	NONE KNOWN
<u>Special Fire Fighting Procedure:</u>	Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
<b>HEALTH HAZARD DATA</b>	
<b>EYES:</b> May cause minimal irritation, seen as slight excess redness of the conjunctiva.	
<b>SKIN:</b> N/A	
<b>ACUTE ORAL TOXICITY:</b> N/A	
<b>ACUTE DERMAL TOXICITY:</b> Eye irritation.	

<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
<b>Eye Contact</b>	Flush with water for at least 15 minutes & seek medical attention.
<b>Skin Contact</b>	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING: Drink large quantities of water. Consult physician immediately.
<b>Inhalation:</b>	Remove to fresh air. Contact a physician if irritation persists.
<b>SPECIAL PROTECTION INFORMATION</b>	
<b>Protective Gloves:</b>	Recommended (rubber, Neoprene)
<b>Eye Protection:</b>	Recommended (goggles or safety glasses)
<b>Respiratory Protection:</b>	None required.
<b>Local Exhaust:</b>	Normal Room Ventilation.
<b>Other Equipment:</b>	Under normal use conditions, no respiratory equipment is needed.
<b>REACTIVITY DATA</b>	
<b>Incompatibility:</b>	Strong oxidizing agents.
<b>Stability:</b>	Product is Stable
<b>Hazardous Polymerization:</b>	Will not Occur
<b>Hazardous Decomposition Product:</b>	Carbon Monoxide upon combustion.
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Floors may become slippery. Use protective equipment. Contain liquid spills using a barrier of inert material such as sand or by diking area. Transfer the liquid and solid separately to containers for recovery or disposal or: drain spill to sewers with large amounts of water.	
<b>SPECIAL INFORMATION</b>	
<b>Storage Handling:</b> Keep containers closed until used.	



# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: T-E-C SOLUTION 1</b> Aqueous Cleaner Concentrate	
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b>	
COMPOSITION:	<u>% by weight</u>
n-Alkyl (60%C <sub>14</sub> , 30%C <sub>16</sub> , 5%C <sub>12</sub> , 5%C <sub>18</sub> ) dimethyl benzyl ammonium chlorides: dimethyl ethylbenzyl ammonium chlorides ..... < 5%	
<b>PHYSICAL DATA</b>	
<u>Appearance:</u> Yellow hazy liquid	<u>Solubility in Water:</u> Dispersible
<u>Odor:</u> Mild	<u>Specific Gravity:</u> 1.0
<u>Boiling Point °F:</u> 212°F 100°C	<u>% Volatile by wt @105°C/2hrs.:</u> Not Known
<u>Freezing Point °F:</u> 0°C	<u>Evaporation Rate (ether=1):</u> Slower than ether
<u>Vapor Pressure:</u> Not Known	<u>pH:</u> 7.1
<u>Vapor Density:</u> Not Known	
<b>FIRE &amp; EXPLOSION DATA</b>	
<u>Flash Point:</u>	Aqueous System
<u>Extinguishing Media:</u>	Dry Chemical, Carbon Dioxide, Foam or Water Fog, Class BC, ABC fire extinguisher.
<u>Unusual Fire or Explosion Hazard:</u>	NONE KNOWN
<u>Special Fire Fighting Procedure:</u>	Self contained positive pressure breathing apparatus and special clothing should be worn in fighting fires involving chemicals.

<b>HEALTH HAZARD DATA</b>	
<b>EFFECTS OF OVEREXPOSURE-Medical Conditions Aggravated/Target Organ effects.</b>	
<b>A. ACUTE (Primary Route of Exposure)</b>	
<b>EYES &amp; SKIN:</b> None Known	
<b>INHALATION:</b> None Known	
<b>INGESTION:</b> None Known	
<b>B. SUBCHRONIC, CHRONIC, OTHER:</b> None Known	
<b>EMERGENCY &amp; FIRST AID PROCEDURES</b>	
Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Prolonged or repeated contact may cause irritation. Rinse contact area with water. Remove contaminated clothing and launder before re-use.
Ingestion:	If Swallowed, consult physician immediately.
Inhalation:	If vapors or mist cause irritation, remove to fresh air, give oxygen, or apply artificial respiration, if needed.
<b>SPECIAL PROTECTION INFORMATION</b>	
Protective Gloves:	Recommended (Impervious rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	Not Required for normal use
Local Exhaust:	Normal Room Ventilation.
Other Equipment:	Eye wash station near use area suggested.
<b>REACTIVITY DATA</b>	
Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	Nitrous Oxides and Ammoniacal Vapors.
<b>SPILL OR LEAK PROCEDURES</b>	
<b>Spill Management:</b> Soak up with absorbent, shovel into waste container, flush with water.	
<b>Waste Disposal Methods:</b> Recover material and dispose in accordance with all applicable Federal and State regulations.	
<b>SPECIAL INFORMATION</b>	
NONE TO REPORT AT THIS TIME	

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

### PRODUCT NAME: **T-E-C SOLUTION 2**

Enzymatic Evacuation System Cleaning Solution

#### COMPOSITIONAL INFORMATION; Hazardous Ingredients

	<u>TLV</u>	<u>PEL</u>
PROTEASE (Enzyme Protein)	N/A	N/A
PROPYLENE GLYCOL	N/A	N/A

#### PHYSICAL DATA

<u>Appearance:</u>	<u>Lt. Green</u>	<u>Solubility in Water:</u>	<u>Complete</u>
<u>Odor:</u>	<u>Light, Clean</u>	<u>Specific Gravity:</u>	<u>H<sub>2</sub>O = 1 @25C 1.010</u>
<u>Boiling Point °F:</u>	<u>N/A</u>	<u>% Volatile by at</u>	
<u>Freezing Point °F:</u>	<u>N/A</u>	<u>@105°C/2hrs.:</u>	<u>N/A</u>
<u>Vapor Pressure:</u>	<u>N/A</u>	<u>Evaporation Rate</u>	
<u>Vapor Density:</u>	<u>N/A</u>	<u>(ether=1)</u>	<u>N/A</u>
		<u>pH:</u>	<u>7.1</u>
		<u>pH in use:</u>	<u>7.6</u>

#### FIRE & EXPLOSION DATA

Flash Point:	NON FLAMMABLE
Extinguishing Media:	Apply Alcohol-Type or all purpose Type foam by manufacturers recommended techniques.
Unusual Fire or Explosion Hazard	NONE KNOWN
Special Fire Fighting Procedure:	N/A

#### HEALTH HAZARD DATA for CONCENTRATE

**EYES:** May cause minimal irritation, seen as slight excess redness of the conjunctiva.  
**SKIN:** Repeated skin contact may result in the development of an allergic skin reaction.  
**ACUTE ORAL TOXICITY:** N/A  
**ACUTE DERMAL TOXICITY:** Skin, eye, irritation.

#### EMERGENCY & FIRST AID PROCEDURES

Eye Contact	Flush with water for at least 15 minutes & seek medical attention.
Skin Contact	Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops.
Ingestion:	Promptly drink large quantities of milk, egg whites, gelatin solution or water: seek medical attention.
Inhalation:	Remove to fresh air. Contact a physician if irritation persists.

#### SPECIAL PROTECTION INFORMATION

Protective Gloves:	Recommended (rubber, PVC)
Eye Protection:	Recommended (goggles or safety glasses)
Respiratory Protection:	NIOSH/OSHA device (approved for dusts, mist, fumes with TLV's below 0.05 mgm).
Local Exhaust:	Local Ventilation Suggested.
Other Equipment:	Under normal use conditions, no respiratory equipment is needed.

#### REACTIVITY DATA

Incompatibility:	Strong oxidizing agents.
Stability:	Product is Stable
Hazardous Polymerization:	Will not Occur
Hazardous Decomposition Product:	Burning can produce Carbon Monoxide and/or Carbon Dioxide

#### SPILL OR LEAK PROCEDURES

**Spill Management:** Flood areas with large quantities of water: wash to sewer if in accordance with local, state and federal regulations. Do not use methods that generate dust or aerosol.

#### SPECIAL INFORMATION

**Storage Precautions:** Avoid contamination of food or feedstuff. Keep container closed when not in use. Do not store below 0° for extended periods. Do not reuse containers. Triple rinse, puncture, and dispose of containers in a sanitary landfill or by incineration.  
**Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.  
**Signs & Symptoms of Exposure:** Skin, eye, respiratory irritation.  
**Medical Conditions Aggravated by Exposure:** Allergy to enzyme protein.  
**Primary route of Entry:** Skin, Eye contact, Respiration.

# MATERIAL SAFETY DATA SHEET

## INFECTION CONTROL TECHNOLOGY

Building F5 Freeport West  
Clearfield, UT 84016

(800) 551-0735  
(801) 825-6001

<b>PRODUCT NAME: VacuCLEANSE</b> Aqueous Cleaner Concentrate													
<b>COMPOSITIONAL INFORMATION; Hazardous Ingredients</b> COMPOSITION: <span style="float: right;"><u>% by weight</u></span> n-Alkyl (60%C <sub>14</sub> , 30%C <sub>16</sub> , 5%C <sub>12</sub> , 5%C <sub>18</sub> ) dimethyl benzyl ammonium chlorides: dimethyl ethylbenzyl ammonium chlorides ..... < 5%													
<b>PHYSICAL DATA</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"><u>Appearance:</u> Yellow hazy liquid</td> <td style="width: 33%;"><u>Solubility in Water:</u> Dispersible</td> </tr> <tr> <td><u>Odor:</u> Mild</td> <td><u>Specific Gravity:</u> 1.0</td> </tr> <tr> <td><u>Boiling Point °F:</u> 221°F 100°C</td> <td><u>% Volatile by wt @105°C/2hrs.:</u> Not Known</td> </tr> <tr> <td><u>Freezing Point °F:</u> 0°C</td> <td><u>Evaporation Rate (ether=1):</u> Slower than ether</td> </tr> <tr> <td><u>Vapor Pressure:</u> Not Known</td> <td><u>pH:</u> 7.1</td> </tr> <tr> <td><u>Vapor Density:</u> Not Known</td> <td></td> </tr> </table>		<u>Appearance:</u> Yellow hazy liquid	<u>Solubility in Water:</u> Dispersible	<u>Odor:</u> Mild	<u>Specific Gravity:</u> 1.0	<u>Boiling Point °F:</u> 221°F 100°C	<u>% Volatile by wt @105°C/2hrs.:</u> Not Known	<u>Freezing Point °F:</u> 0°C	<u>Evaporation Rate (ether=1):</u> Slower than ether	<u>Vapor Pressure:</u> Not Known	<u>pH:</u> 7.1	<u>Vapor Density:</u> Not Known	
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<b>FIRE &amp; EXPLOSION DATA</b> Flash Point: Aqueous System Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam or Water Fog, Class BC, ABC fire extinguisher. Unusual Fire or Explosion Hazard: NONE KNOWN Special Fire Fighting Procedure: Self contained positive pressure breathing apparatus and special clothing should be worn in fighting fires involving chemicals.													

<b>HEALTH HAZARD DATA</b> <b>EFFECTS OF OVEREXPOSURE-Medical Conditions Aggravated/Target Organ effects.</b> <b>A. ACUTE (Primary Route of Exposure)</b> <b>EYES &amp; SKIN:</b> None Known <b>INHALATION:</b> None Known <b>INGESTION:</b> None Known <b>B. SUBCHRONIC, CHRONIC, OTHER:</b> None Known	
<b>EMERGENCY &amp; FIRST AID PROCEDURES</b> Eye Contact: Flush with water for at least 15 minutes & seek medical attention. Skin Contact: Flush with water for at least 15 minutes: Remove & wash contaminated clothing before re-use. Seek medical attention if irritation develops. Ingestion: If Swallowed, consult physician immediately. Inhalation: If vapors or mist cause irritation, remove to fresh air, give oxygen, or apply artificial respiration, if needed.	
<b>SPECIAL PROTECTION INFORMATION</b> Protective Gloves: Recommended (rubber, PVC) Eye Protection: Recommended (goggles or safety glasses) Respiratory Protection: Not Required for normal use Local Exhaust: Local Ventilation Suggested. Other Equipment: Eye wash station near use area suggested.	
<b>REACTIVITY DATA</b> Incompatibility: Strong oxidizing agents. Stability: Product is Stable Hazardous Polymerization: Will not Occur Hazardous Decomposition Product: Nitrous Oxides & Ammoniacal Vapors.	
<b>SPILL OR LEAK PROCEDURES</b> <b>Spill Management:</b> Soak up with absorbent, shovel into waste container, flush with water. <b>Waste Disposal Methods:</b> Recover material and dispose in accordance with all applicable Federal and State regulations.	
<b>SPECIAL INFORMATION</b> NONE TO REPORT AT THIS TIME	