



# Safety Data Sheet

## Clearal 269

### 1. IDENTIFICATION

<b>Product name</b>	Clearal 269
<b>Description</b>	Glut/quat solution
<b>Product class</b>	Biocide
<b>Supplier address</b>	166 Commerce Dr. Stoystown, PA 15563
<b>Telephone numbers</b>	
<u>Company Phone Number</u>	(814) 629-7118
<u>Emergency Telephone</u>	CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b>	Acute Toxicity: Oral, Category 4 Skin Corrosion, Category 1 Respiratory Sensitization, Category 1A Serious Eye Damage, Category 1 Acute Toxicity: Inhalation, Category 2 Skin Sensitization, Category 1 Specific Organ Toxicity, Single Exposure, Category 1 Aquatic Environment Toxicity: Acute, Category 1 Aquatic Environment Toxicity: Chronic, Category 2
<b>Signal word</b>	Danger
<b>Hazard statements</b>	Harmful if swallowed. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye damage. Fatal if inhaled. May cause an allergic skin reaction. Causes damage to organs. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Pictograms of related hazards**



**Precautionary statements**

Prevention

Wash skin thoroughly after handling.  
 Do not eat, drink, or smoke when using this product.

Wear protective gloves, protective clothing, eye protection, and face protection.  
 Avoid breathing fumes, mist, vapors, or spray.  
 Wear respiratory protection.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Avoid release to the environment.

### Response

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.  
 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.  
 IF INHALED: Remove victim 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 contact a POISON CENTER or health care provider.  
 If experiencing respiratory symptoms: Contact a POISON CENTER or health care provider.  
 If skin irritation or a rash occurs: Get medical attention.  
 Take off contaminated clothing and wash it before reuse.  
 If exposed or concerned: Call a POISON CENTER or health care provider.

### Storage

Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.

### Disposal

Dispose of contents and container in accordance with local, state, and federal regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Glutaraldehyde	111-30-8	20–30
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	5–10
Didecyl dimethyl ammonium chloride	7173-51-5	5–10
Non-hazardous substances	Proprietary	50–60

## 4. FIRST-AID MEASURES

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
<b>Skin contact</b>	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.

<b>Inhalation</b>	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
<b>Note to health care provider</b>	Esophageal corrosion may contraindicate the use of gastric lavage and/or activated charcoal.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water spray, foam, dry chemical, carbon dioxide
<b>Unsuitable extinguishing media</b>	Water jet will spread fire
<b>Protective equipment and precautions for firefighters</b>	Responders should stay upwind. Full protective equipment including self-contained breathing apparatus should be used (HAZMAT suits) if there is liquid methanol or if vapor levels are above the threshold limit value (TLV). Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.
<b>Specific hazards</b>	Combustion may produce toxic gases.
<b>Hazardous combustion products</b>	Corrosive vapor, ammonia

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.
<b>Methods for clean-up</b>	
<u>Small spills</u>	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.
<u>Large spills</u>	Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling. Contaminated clothing should not be removed from the workplace.
<b>Storage conditions</b>	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
<b>Suitable materials of construction</b>	No information available
<b>Unsuitable materials of construction</b>	No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Eye/face protection</b>	Chemical splash goggles
<b>Skin protection</b>	Chemical-resistant gloves and body-covering clothing
<b>Respiratory protection</b>	Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).
<b>Engineering controls</b>	Adequate ventilation, eye-wash station, and emergency shower
<b>General hygiene considerations</b>	Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
Glutaraldehyde	0.2 ppm; 0.8 mg/m <sup>3</sup>	0.05 ppm
Alkyl dimethyl benzyl ammonium chloride	None established	None established
Didecyl dimethyl ammonium chloride	None established	None established
Non-hazardous substances	None established	None established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>pH</b>	2.5-3.5
<b>Appearance</b>	Clear colorless to pale yellow liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Initial boiling point/boiling range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Upper/lower flammability or explosive limits</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>VOC content</b>	No information available
<b>Specific gravity</b>	1.007-1.087
<b>Solubility</b>	Complete
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions of storage and handling.
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<b>Hazardous polymerization</b>	Polymerization will not occur.
<b>Conditions to avoid</b>	Extreme temperatures, incompatibilities.
<b>Incompatibilities</b>	Strong oxidizers, amines
<b>Hazardous decomposition products</b>	No information available

## 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure** Skin, eyes, ingestion

### Acute toxicity

#### *Glutaraldehyde*

Parameter	Result
LD <sub>50</sub> , Oral (rat)	134 mg/kg
LD <sub>50</sub> , Dermal (rat)	2,500 mg/kg
LC <sub>50</sub> , Inhalation (rat)	480 mg/m <sup>3</sup> /4hr

#### *Alkyl dimethyl benzyl ammonium chloride, (82.26% solution)*

Parameter	Result
LD <sub>50</sub> , Oral (rat)	280.8-510.9 mg/kg
LC <sub>50</sub> , Dermal (rat)	704-1,100 mg/kg
LC <sub>50</sub> , Inhalation (rat)	0.054-0.510 mg/L
Primary dermal irritation	Corrosive
Sensitization	Not a dermal sensitizer

#### *Didecyl dimethyl ammonium chloride*

Parameter	Result
LD <sub>50</sub> , Oral (rat)	84 mg/kg
LD <sub>50</sub> , Oral (mouse)	268 mg/kg

### Acute symptoms and effects

<b>Eye</b>	Eye irritation with or without pain, burning, itching, redness, discharge, and serious eye damage.
<b>Skin</b>	Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.
<b>Ingestion</b>	Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral and esophageal mucosa.
<b>Inhalation</b>	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion, and acute lung damage. May be fatal if inhaled.
<b>Reproductive effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Mutagenicity</b>	No information available
<b>Embryotoxicity</b>	No information available
<b>Sensitization to product</b>	No information available
<b>Synergistic products</b>	No information available

**Carcinogenicity**

No information available

**Chronic**

Long-term exposure to fumes may lead to tolerance.

**12. ECOLOGICAL INFORMATION****Aquatic toxicity*****Glutaraldehyde***

Parameter	Result
96 hr LC <sub>50</sub> , Bluegill sunfish	12.2 ppm
96 hr LC <sub>50</sub> , Fathead minnow	5.4 ppm
96 hr LC <sub>50</sub> , Rainbow trout	9.5 ppm
48 hr EC <sub>50</sub> , Daphnia magna	0.75 ppm

***Alkyl dimethyl benzyl ammonium chloride***

Parameter	Result
96 hr LC <sub>50</sub> , Bluegill sunfish	0.515 mg/L
NOAEC, Bluegill sunfish	0.456 mg/L
96 hr LC <sub>50</sub> , Fathead minnow	0.28 mg/L
96 hr LC <sub>50</sub> , Fathead minnow	1.4 mg/L
96 hr LC <sub>50</sub> , Fathead minnow	0.77 mg/L
NOAEC, Fathead minnow	0.99 mg/L
NOAEC, Fathead minnow	0.53 mg/L
96 hr LC <sub>50</sub> , Rainbow trout	0.36 mg/L
96 hr LC <sub>50</sub> , Rainbow trout	0.923 mg/L
96 hr LC <sub>50</sub> , Rainbow trout	1.01 mg/L
NOAEC, Rainbow trout	0.619 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	0.0059 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	0.02 mg/L
96 hr LC <sub>50</sub> , Sheepshead Minnow	0.86 mg/L
NOAEC, Sheepshead minnow	0.68 mg/L
NOAEC, Sheepshead minnow	0.047 mg/L
96 hr LC <sub>50</sub> , Mysid shrimp	0.092 mg/L
96 hr LC <sub>50</sub> , Mysid shrimp	0.08 mg/L
96 hr LC <sub>50</sub> , Inland silverside	0.31 mg/L
48 hr LC <sub>50</sub> , Eastern oyster	0.055 mg/L
14 day LC <sub>50</sub> , Chironomus tentans	548 mg/kg
14 day LOAEC, Chironomus tentans	520 mg/kg
14 day NOAEC, Chironomus tentans	260 mg/kg
14 day MATC, Chironomus tentans	368 mg/kg
14 day LC <sub>50</sub> , Chironomus tentans	479 mg/kg
14 day LOAEC, Chironomus tentans	1,200 mg/kg
14 day NOAEC, Chironomus tentans	520 mg/kg
14 day MATC, Chironomus tentans	790 mg/kg
34 day LOAEC, Fathead minnow	0.0759 mg/L
34 day NOAEC, Fathead minnow	0.0322 mg/L
34 day MATC, Fathead minnow	0.0494 mg/L

***Didecyl dimethyl ammonium chloride***

Parameter	Result
96 hr LC <sub>50</sub> , Fathead minnow	0.330 mg/L
96 hr LC <sub>50</sub> , Fathead minnow	0.470 mg/L
96 hr LC <sub>50</sub> , Rainbow trout	0.537 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	0.160 mg/L

**Persistence** No information available

**Bioaccumulative potential** No information available

**Mobility** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal** Dispose of in accordance with federal, state, and local regulations. Do not discharge into sewer or surface water.

**RCRA status** Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

**14. TRANSPORT INFORMATION**

**US Department of Transportation (DOT)**

**UN Number** UN1760

**Proper shipping name** Corrosive liquid, n.o.s. (contains quaternary ammonium chloride, glutaraldehyde)

**Primary hazard class/division** 8

**Secondary hazard**

**Packing group** II

**Label**



**IATA; IMDG**



**Marine pollutant**



### 15. REGULATORY INFORMATION

**OSHA Hazard Communication Status** Acute Toxicity: Oral, Category 4  
 Skin Corrosion, Category 1  
 Respiratory Sensitization, Category 1A  
 Serious Eye Damage, Category 1  
 Acute Toxicity: Inhalation, Category 2  
 Skin Sensitization, Category 1  
 Specific Organ Toxicity, Single Exposure, Category 1  
 Aquatic Environment Toxicity: Acute, Category 1  
 Aquatic Environment Toxicity: Chronic, Category 2

**EPA Registration Number** 12487-2-92175

**TSCA** The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA**EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Glutaraldehyde	None
Alkyl dimethyl benzyl ammonium chloride	None
Didecyl dimethyl ammonium chloride	None
Non-hazardous substances	None

SARA Title III (Sections 302, 311, 312, and 313)

## Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
None			

## Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

## Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
None		

### 16. OTHER INFORMATION

**HMIS Ratings** Health—3; Flammability—0; Reactivity—0

**NFPA Ratings** Health—3; Flammability—0; Reactivity—0

**HMIS/NFPA Rating Scale** Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4

**SDS Issue Date** 10/19/2017

**Version** 1

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