

511 Railroad Ave. Homer City, PA 15748 (724) 915-8388 www.chemstream.com

# Safety Data Sheet Clearal 270

#### 1. IDENTIFICATION

Product name Clearal 270

**Description** Aqueous anti-microbial solution

Product class Biocide

**Supplier address** 511 Railroad Ave

Homer City, PA 15748

**Telephone numbers** 

Company Phone Number (724) 915-8388

Emergency Telephone CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

**Hazard classification** Acute Toxicity: Oral, Category 4

Skin Corrosion, Category 1

Respiratory Sensitization, Category 1A Serious Eye Damage, Category 1

Signal word Danger

**Hazard statements** 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.

#### 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.

#### Response

Wash contaminated clothing before reuse.

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.

#### Storage

Store locked up.

## **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
Ethanol	64-17-5	1–5
Non-hazardous substances	Proprietary	50–60

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Eye contact 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.

**Skin contact** Immediately remove all contaminated clothing. Rinse with

copious amounts of water; use an emergency shower if

available. Wash contaminated clothing before reuse.

**Ingestion** Call a poison control center or doctor immediately for

treatment advice. Have person sip a glass of water if able to swallow. 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.

**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.

Note to health care provider Probable mucosal damage may contraindicate the use of

gastric lavage.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing media appropriate for the surrounding

fire.

Unsuitable extinguishing media No information available

**Product**: Clearal 270

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Protective equipment and precautions for firefighters

Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible. Move containers from fire area if possible.

**Specific hazards** Combustion may produce toxic gases.

Hazardous combustion products Carbon oxides, nitrogen oxides

# 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** 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.

Methods for clean-up

Small spills 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

Advice on safe handling Avoid contact with eyes, skin, and clothing. Avoid

breathing vapor or mist. Wash hands thoroughly after

handling.

Storage conditions Store in a cool, dry, well-ventilated area away from

incompatible materials. Keep containers closed when not

in use.

Suitable materials of

construction

No information available

**Unsuitable materials of** 

construction

No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye/face protection** Chemical splash goggles

**Skin protection** Chemical-resistant gloves and body-covering clothing

**Respiratory protection**Observe published airborne exposure limits. NIOSH

approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR

1910.134).

**Engineering controls** Adequate ventilation, eye-wash station, and emergency

shower

**General hygiene considerations** 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
Ethanol	1900 mg/m <sup>3</sup>	STEL: 1000 ppm

# 9. PHYSICAL AND CHEMICAL PROPERTIES

pH	3.5-6.5
Appearance	Clear colorless to pale yellow liquid
Odor	Fruity
Odor Threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling	No information available
range	
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or	No information available
explosive limits	
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	1.010-1.090
Solubility	Complete
Partition coefficient	No information available
n-octanol/water	
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

# 10. STABILITY AND REACTIVITY

**Chemical stability** Stable under normal conditions of storage and handling.

**Hazardous polymerization** Polymerization will not occur.

Conditions to avoidExtreme temperatures, incompatibilitiesIncompatibilitiesStrong acids, strong bases, strong oxidizersHazardous decompositionNo known non-thermal decomposition hazards.

products

# 11. TOXICOLOGICAL INFORMATION

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

Glutaraldehyde

Parameter	Result
LD <sub>50</sub> , Oral (rat)	134 mg/kg
LD <sub>50</sub> , Dermal (rat)	2,500 mg/kg

Ī	LC <sub>50</sub> , Inhalation (rat)	480 mg/m³/4hr

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

#### Ethanol

Parameter	Result
LD <sub>50</sub> , Oral (rat)	7,060 mg/kg
LD <sub>50</sub> , Dermal (rabbit)	20,000 mg/kg
LC <sub>50</sub> , Inhalation (rat)	20,000 ppm
LD <sub>Lo</sub> , Oral (human)	1,400 mg/kg

# **Acute symptoms and effects**

**Eye** Eye irritation with or without pain, burning, itching, redness,

discharge, and serious eye damage.

**Skin** Skin irritation with or without pain, burning, itching,

redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.

**Ingestion** Gastrointestinal distress with or without nausea, vomiting,

and diarrhea.

**Inhalation** Upper respiratory irritation with or without cough, watering

of the eyes, and postnasal drip.

Reproductive effectsNo information availableTeratogenicityNo information availableMutagenicityNo information availableEmbryotoxicityNo information availableSensitization to productNo information availableSynergistic productsNo information available

**Carcinogenicity** No components have been identified as carcinogenic by

OSHA, NTP, or IARC.

**Chronic** No information available

#### 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
NOAEC, Fathead minnow	0.53 mg/L
96 hr LC <sub>50</sub> , Rainbow trout	0.36 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
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

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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		

# Ethanol

Parameter	Result
96 hr LC <sub>50</sub> , Fathead minnow	13,400 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	>10,000 mg/L

# 13. DISPOSAL CONSIDERATIONS

**Disposal** 

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

**Product**: Clearal 270

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RCRA status Discarded product, as sold, would not be considered a

RCRA Hazardous Waste.

#### 14. TRANSPORT INFORMATION

# **US Department of Transportation (DOT)**

UN Number UN1903

**Proper shipping name** Disinfectant, liquid, corrosive, n.o.s. (contains quaternary

ammonium compound)

Primary hazard class/division 8
Secondary hazard None
Packing group

**Label** Corrosive

# 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

EPA Registration Number

12487-20-92757

**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
Ethanol	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** 6/4/2021

Version 1

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