

Product ACS-CLL-112X  
 Revision Date 02/13/2019  
 Revision 1



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>ACS-CLL-112X</b>
<b>Identifier Uses</b>	Closed Loop Treatment
<b>Supplier</b>	Advanced Chemical Service Inc. 3410 La Sierra Ave.#F271 Riverside, CA 92503 Tel: 800-319-9227
<b>Website</b>	800-319-9227 / www.advancedchemicalservice.com
<b>Emergency Telephone</b>	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Clear Pink Liquid
<b>Color</b>	Clear Pink Liquid
<b>Odor</b>	Odorless

**Pictogram(s)**



**Signal Word** Danger

**Hazard Statements**

H272 May intensify fire; oxidizer  
 H361 Suspected of damaging fertility or the unborn child.  
 H332 Harmful if inhaled.  
 H314 Causes severe skin burns and eye damage

**Precautionary Statements**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician  
 P202 Do not handle until all safety precautions have been read and understood.  
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

**Contains** Sodium Nitrite

**GHS Classification**

**Physical and Chemical Hazards** Ox Liq 3 - H272,  
**Human Health** Eye Irrit.2A - H315, Repr. 2 - H361, Acute Tox 4 - H332, Skin Corr. 1C - H314  
**Environment** Not classified

**OSHA Regulatory Status** This product is Hazardous under the OSHA Hazard communication Standard.

**Inhalation** Harmful if inhaled.  
**Ingestion** Harmful if swallowed. Suspected of damaging fertility.  
**Skin contact** Corrosive! Can cause redness, pain, and severe skin burns.  
**Eye contact** Causes severe eye burns.  
**Routes of Exposure** Unknown

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****Composition Comments**

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

**SECTION 4: FIRST AID MEASURES**Description of first aid measures**General Information**

General first aid, rest, warmth and fresh air.

**Inhalation**

If this product is inhaled, move the exposed person to fresh air promptly. Rinse nose and mouth with water.

**Ingestion**

If the product is ingested, seek medical attention immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Skin contact**

If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes.

**Eye contact**

Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes.

Most important symptoms and effects, both acute and delayed**General Information**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

**Inhalation**

Harmful if inhaled.

**Ingestion**

Harmful if swallowed. Suspected of damaging fertility.

**Skin contact**

Corrosive! Can cause redness, pain, and severe skin burns.

**Eye contact**

Causes severe eye burns.

**Routes of Exposure**

Unknown

Most important symptoms and effects, both acute and delayed**Notes to the Physician**

Treat Symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Auto Ignition Temperature (°C)**

No Information available.

**Flammability Limit-Lower (%)**

No Information available.

**Flammability Limit-Upper (%)**

No Information available.

**Flashpoint**

No Information available.

**Extinguishing Media**

Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry chemical or carbon dioxide.

**Hazardous combustion products  
Unusual Fire & Explosion Hazards**

Hazardous combustion results in the release of Oxides of Nitrogen.  
Dried residue can stimulate the combustion of organic materials. Nitrite is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Nitrite increases the flammability of any combustible material.

**Special Fire Fighting Procedures  
Protective equipment for fire-fighters**

Use water to cool containers exposed to a fire. Avoid breathing fire vapors.  
Wear full protective clothing and self-contained breathing apparatus, suitable gloves and boots.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions**

For personal protection, see section 8. In case of inadequate ventilation, use respiratory protection. Do not smoke, use open fire or other sources of ignition. In case of spills, beware of slippery floors and surfaces.

**Environmental Precautions  
Spill Clean Up Methods**

Keep out of drains, municipal sewers, open bodies of water and water course.  
Restrict non-essential personnel from the area. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer. Place into chemical waste container for disposal according to local, state or federal regulations. DO NOT TOUCH SPILLED MATERIAL! Wash thoroughly after dealing with a spillage.

**SECTION 7: HANDLING AND STORAGE**

<b>Handling</b>	Use proper personal protection when handling. Provide good ventilation. Avoid contact with skin and eyes and clothing. Do not use contact lenses. Avoid inhalation of vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
<b>Usage Description</b>	Store in a cool, dry, and well-ventilated place away from incompatible materials. Vent containers frequently, and more often in warm weather to relieve pressure. Keep container tightly closed when not in use. Do not get in eyes, on skin, or on clothing.
<b>Storage Precautions</b>	Store closed containers in a cool, dry, well-ventilated area away from incompatible materials. This product is stable under normal conditions of handling and storage. Avoid cold temperatures. The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Store away from strong acids, strong reducing agents, ammonia salts, amines, organic matter, phthalic acid and cyanides. The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.
<b>Specific End Use(s)</b>	The identified uses are in section 1 of this Safety Data Sheet.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****Protective Equipment**

Component	STD	TWA (8 Hrs.)	STEL (15mins)	Notes
potassium hydroxide	OSHA		2mg/m3	

<b>Ingredient Comments</b>	OSHA
<b>Process Conditions</b>	Provide eyewash, quick drench.
<b>Engineering Measures</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
<b>Respiratory Equipment</b>	Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.
<b>Hand Protection</b>	When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but we have positive experience with gloves made of Rubber.
<b>Eye Protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Hygiene Measures</b>	DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

<b>Appearance</b>	Liquid.
<b>Color</b>	Pink Liquid
<b>Odor</b>	odorless
<b>Odor Threshold -Lower</b>	No Information available.
<b>Odor Threshold -Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	12.5

<b>Melting point</b>	32.0 °F
<b>Initial boiling point and boiling range</b>	212.0 °F
<b>Flashpoint</b>	No Information available.
<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit-Lower (%)</b>	No Information available.
<b>Flammability Limit-Upper (%)</b>	No Information available.
<b>Vapor pressure</b>	23.8 mm Hg 0.0
<b>Vapor Density (air=1)</b>	Not determined.
<b>Relative density</b>	10.30 @ 68.0 °F
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	Completely soluble in water.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing properties</b>	No Information available.
<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	No Information available.

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Reactivity</b>	Reaction with Strong acids, strong reducing agents, ammonia salts, amines, organic matter, phthalic acid and cyanides.
<b>Stability</b>	This product is stable at ambient temperatures and atmospheric pressures.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
<b>Hazardous Decomposition Products</b>	Hazardous combustion results in oxides of nitrogen. Decomposition of sodium nitrite may leave a caustic residue.
<b>Conditions to Avoid</b>	Avoid extreme temperatures and storing in large quantities and for long periods of time. Keep away from reactive or combustible materials.
<b>Materials to Avoid</b>	Keep away from Strong acids, strong reducing agents, ammonia salts, amines, organic matter, phthalic acid and cyanides.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>Toxicological Information</b>	No Information available.
<b>Acute Toxicity (Oral LD50)</b>	>931.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>600.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LC50)</b>	Not determined.

<b>Skin Corrosion/Irritation</b>	No Information available.
<b>Respiratory Sensitization</b>	No Information available.
<b>Skin Sensitization</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.
<b>Germ Cell Mutagenicity:</b>	
<b>Genotoxicity - In Vitro</b>	
<b>Genotoxicity - In Vivo</b>	
<b>Carcinogenicity:</b>	
<b>Carcinogenicity</b>	No Information available.
<b>NTP - Carcinogenicity</b>	The product and its components are not listed.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	The product and its components are not listed.
<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	No Information available.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
sodium nitrite	157.9mg/kg Rat 175mg/kg Mouse 186mg/kg Rabbit 85mg/kg Rat		5.5mg/l (vapors) Rat 4 Hours
potassium hydroxide		1350mg/kg Rabbit	
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

## SECTION 12: ECOLOGICAL INFORMATION

<b>Eco toxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	LC50 96 Hours >175.00ppm Onchorhynchus mykiss (Rainbow Trout)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 48 Hours >790.00ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	EC50 72 Hours >45.00ppm
<b>Degradability</b>	No information available.
<b>Bio accumulative Potential</b>	No Information available.
<b>Mobility</b>	Completely soluble in water.
<b>Results of PBT and vPvB Assessment</b>	The product does not contain any PBT or vPvB substances.
<b>Other Adverse Effects</b>	None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Invertebrates)
sodium nitrite	LC50 96 Hours 0.13mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 100.00mg/l Daphnia magna	
potassium hydroxide		EC50 100.00ppm Daphnia magna	
sodium 4(or 5)-methyl-1H-benzotriazolide	LC50 96 Hours 191.20mg/l Lepomis macrochirus (Bluegill) LC50 96 Hours 23.70 Onchorhynchus mykiss (Rainbow Trout)	LC50 48 Hours 245.70mg/l Daphnia magna	

## SECTION 13: DISPOSAL CONSIDERATIONS


<b>Waste Management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Disposal Methods</b>	Dispose of waste and residues in accordance with local authority requirements. Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after

container is emptied.

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## SECTION 14: TRANSPORT INFORMATION

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<b>UN No. (DOT/TDG)</b>	3093 - CORROSIVE LIQUID, OXIDIZING, (Sodium Nitrite Solution)
<b>UN No. (IMDG)</b>	3093 - CORROSIVE LIQUID, OXIDIZING, (Sodium Nitrite Solution)
<b>UN No. (ICAO)</b>	3093 - Corrosive liquid, oxidizing (Sodium Nitrite Solution)
<b>DOT Proper Shipping Name</b>	3093 - CORROSIVE LIQUID, OXIDIZING, (Sodium Nitrite Solution)
<b>TDG Proper Shipping Name</b>	3093 - CORROSIVE LIQUID, OXIDIZING, (Sodium Nitrite Solution)
<b>DOT Hazard Class</b>	8, 5.1
<b>DOT Hazard Label</b>	Class 8 - Corrosive
<b>TDG Class</b>	8
<b>TDG Label(s)</b>	8 +5.1
<b>IMDG Class</b>	8
<b>ICAO Class</b>	8
<b>Transport Labels</b>	
<b>DOT PackGroup</b>	II
<b>IMDG Pack Group</b>	II
<b>Air Pack Group</b>	II
<b>EMS</b>	F-A, S-Q
<b>Environmentally Hazardous Substance/Marine Pollutant</b>	No

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## SECTION 15: REGULATORY INFORMATION

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### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The Following ingredients are listed

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The Following ingredients are listed

#### **SARA 313 Emission Reporting**

The Following ingredients are listed

#### **CAA Accidental Release Prevention**

The Following ingredients are listed sodium nitrite

#### **OSHA Highly Hazardous Chemicals**

The Following ingredients are listed

### US State Regulations

**California Proposition 65 Carcinogens and Reproductive Toxins**

The Following ingredients are listed

**California Air Toxics "Hot Spots" (A-I)**

The Following ingredients are listed      potassium hydroxide

**California Air Toxics "Hot Spots" (A-li)**

The Following ingredients are listed

**Massachusetts "Right To Know" List**

The Following ingredients are listed      sodium nitrite  
potassium hydroxide

**Rhode Island "Right To Know" List**

The Following ingredients are listed      potassium hydroxide

**Minnesota "Right To Know" List**

The Following ingredients are listed      potassium hydroxide

**New Jersey "Right To Know" List**

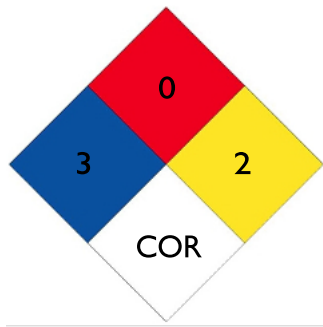
The Following ingredients are listed      sodium nitrite  
potassium hydroxide

**Pennsylvania "Right To Know" List**

The Following ingredients are listed      sodium nitrite  
potassium hydroxide

**SECTION 16: OTHER INFORMATION**

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

<b>Health</b>	3
<b>Flammability</b>	0
<b>Physical Hazard</b>	2
<b>Personal Protection</b>	D

**Disclaimer**

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