

Product ACS-CLL-166
 Revision Date 5/15/2015
 Revision 1



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	ACS-CLL-166
Identifier Uses	Closed Loop Treatment
Supplier	Advanced Chemical Service Inc. 3410 La Sierra Ave.#F271 Riverside, CA 92503 Tel: 800-319-9227
Contact Person	800-319-9227 / www.advancedchemicalservice.com
Emergency Telephone	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Liquid.
Color	Clear, faint yellow liquid.
Odor	Sweet.
Pictogram(s)	
Signal Word	Danger
Hazard Statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage
Precautionary Statements	P280 Wear protective gloves/ protective clothing/eye protection/face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower 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
Contains	sodium hydroxide sodium nitrite sodium 4(or 5)-methyl-1H-benzotriazolide
GHS Classification	
Physical and Chemical Hazards	Not classified
Human Health	Acute Tox 4 - H302, Skin Corr. IC - H314
Environment	Not classified
OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
Ingestion	May cause chemical burns in mouth and throat. Harmful if swallowed.
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.
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SECTION 4: FIRST AID MEASURESDescription 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. Get medical attention if any discomfort continues.
Ingestion	If the product is ingested, seek medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	If the product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn.

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	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
Ingestion	May cause chemical burns in mouth and throat. Harmful if swallowed.
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.
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SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C)	Not known.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Flash point	No Information available.
Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry chemical or carbon dioxide.
Hazardous combustion products	Oxides of nitrogen. May leave a caustic residue.
Unusual Fire & Explosion Hazards	Dried residue can stimulate the combustion of organic materials.
Special Fire Fighting Procedures	Use water to cool containers exposed to a fire. Avoid breathing fire vapors.
Protective equipment for fire-fighters	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	Keep out of drains, municipal sewers, open bodies of water and water course.
Spill Clean Up Methods	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. Neutralize residue with lime or soda ash and flush spill area. DO NOT TOUCH SPILLED MATERIAL! Wash thoroughly after dealing with a spillage.

SECTION 7: Handling and Storage

Handling	Use proper personal protection when handling. Provide good ventilation. Avoid contact with
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Usage Description	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.
Storage Precautions	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.
Specific End Use(s)	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). 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. Strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
	The identified uses are in section I of this Safety Data Sheet.

SECTION 8: Exposure Controls/Personal Protection

Protective Equipment



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

Ingredient Comments	OSHA
Process Conditions	Provide eyewash, quick drench.
Engineering Measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory Equipment	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.
Hand Protection	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.
Eye Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Hygiene Measures	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

Appearance	Liquid.
Color	Clear, faint yellow liquid.
Odor	Sweet.
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	12.7
Melting point	32.0 °F
Initial boiling point and boiling	212.0 °F

range	
Flashpoint	No Information available.
Evaporation rate	No Information available.
Flammability State	No Information available.
Flammability Limit - Lower (%)	No Information available.
Flammability Limit - Upper (%)	No Information available.
Vapor pressure	23.8 mm Hg 0.0
Vapor Density (air=1)	Not determined.
Relative density	1.13 @ 68.0 °F
Bulk Density	No Information available.
Solubility	Completely soluble in water.
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature (°C)	Not known.
Viscosity	No Information available.
Explosive Properties	No information available.
Oxidizing properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

SECTION 10: Stability and Reactivity

Reactivity	Strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
Stability	This product is stable at ambient temperatures and atmospheric pressures.
Hazardous Polymerization	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Hazardous Decomposition Products	Oxides of nitrogen. May leave a caustic residue.
Conditions to Avoid	Avoid extreme temperatures and storing in large quantities and for long periods of time.
Materials to Avoid	Do not mix with other chemicals unless listed on directions.

SECTION 11: Toxicological Information

Toxicological Information	No Information available.
Acute Toxicity (Oral LD50)	>1270.00mg/kg Rat
Acute Toxicity (Dermal LD50)	>589.00mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	Not determined.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitization	No Information available.
Skin Sensitization	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	

Genotoxicity - In Vitro
Genotoxicity - In Vivo

Carcinogenicity:

Carcinogenicity No Information available.
NTP - Carcinogenicity The product and its components are not listed.
OSHA - Carcinogenicity The product and its components are not listed.
IARC Carcinogenicity The product and its components are not listed.

Specific Target Organ Toxicity - Single Exposure:

STOT - Single Exposure No Information available.

Specific Target Organ Toxicity - Repeated Exposure:

STOT - Repeated Exposure 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 (vapours) Rat 4Hours
sodium 4(or 5)-methyl-1H-benzotriazolide	920mg/kg		

SECTION 12: Ecological Information

Eco toxicity No Information available.

Acute Toxicity - Fish LC50 96 Hours >7600.00ppm Onchorhynchus mykiss (Rainbow Trout)
Acute Toxicity - Aquatic Invertebrates LC50 48 Hours >945.00ppm Daphnia magna
Acute Toxicity - Aquatic Plants EC50 72 Hours > 185.00ppm

Degradability No information available.

Bio accumulative Potential No Information available.

Mobility Completely soluble in water.

Results of PBT and vPvB Assessment The product does not contain any PBT or vPvB Substances.

Other Adverse Effects None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Plants)
sodium nitrite	LC50 96 Hours 0.13mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 100.00mg/l 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

Waste Management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Disposal Methods 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.

SECTION 14: Transport Information

UN No. (DOT/TDG) 3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)

UN No. (IMDG)	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (Sodium Nitrite Solution)
UN No. (ICAO)	3266 - Corrosive liquid, basic, inorganic (Sodium Nitrite Solution)
DOT Proper Shipping Name	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)
TDG Proper Shipping Name	3266 - CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM NITRITE SOLUTION)
DOT Hazard Class	8
DOT Hazard Label	Class 8 - Corrosive
TDG Class	8
TDG Label(s)	8
IMDG Class	8
ICAO Class	8
Transport Labels	
DOT PackGroup	II
IMDG Pack Group	II
Air Pack Group	II
EMS	F-A, S-B
Environmentally Hazardous Substance/Marine Pollutant	No

SECTION 15: Regulatory Information

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 sodium hydroxide

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 sodium hydroxide

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

The Following ingredients are listed

Massachusetts "Right To Know" List

The Following ingredients are listed sodium hydroxide
sodium nitrite

Rhode Island "Right To Know" List

The Following ingredients are listed sodium hydroxide

Minnesota "Right To Know" List

The Following ingredients are listed sodium hydroxide

New Jersey "Right To Know" List

The Following ingredients are listed sodium hydroxide
sodium nitrite

Pennsylvania "Right To Know" List

The Following ingredients are listed sodium hydroxide
sodium nitrite

SECTION 16: Other Information

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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
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Personal Protection

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HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

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Revision Comments

Revision Date	5/15/2015
Revision	1

Disclaimer

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