

# MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: ACT CS-440

MSDS NUMBER: 051701CS440

PRODUCT CODE: Closed Loop Treatment

MSDS DATE: 05/17/01

KEY NUMBER: CS-440

EMERGENCY PHONE #'s: (800) 255-3924 (ChemTel)



**Advanced Chemical Technology LLC**

28766 Eagleton Street • Agoura, CA 91301 USA  
818 • 889 • 9346 Voice & Fax

<b>HEALTH</b>	<b>2</b>	<b>Hazardous</b>
<b>FIRE</b>	<b>0</b>	<b>Will Not Burn</b>
<b>REACTIVITY</b>	<b>0</b>	<b>Stable</b>
<b>SPECIFIC</b>	Corrosive - COR	

## 1. IDENTIFICATION

See Addendum: Ref. PAGE:

**Chemical Name:** ACT CS-440 Closed Loop Inhibitor

**Chemical Family:** Closed Loop Inhibitor

**CAS #:** Mixture

**Chemical Formula:** Mixture

**CAS Name:** Mixture

**Molecular Weight:** Mixture

**Synonyms / Common Name:** Closed Loop Treatment

**DOT Information:** D.O.T. Non-regulated water treatment liquid compound

## 2. PHYSICAL DATA

See Addendum: Ref. PAGE:

**Appearance:** Colorless liquid

**Color:** Colorless

**State:** Liquid

**Odor Characteristics:** Mild odor, sweet

**pH:** 12.7

**Viscosity:** ND

**Specific Gravity (Water = 1):** 1.127

**Vapor Density (Air = 1):** < 1

**Vapor Pressure:** 23.75

**Melting Point:** NA

**Boiling Point:** >212 °F

**Flash Point:** None

**Freezing Point:** ND

**Percent Volatility:** ND

**Evaporation Rate (BAC = 1):** 1

**Solubility in Water:** Soluble

**Solubility in Oil:** ND

**Solubility in Acetone:** ND

## 3. INGREDIENTS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Sodium Nitrite	7632-00-0	Sodium Nitrite	NE	Proprietary
Sodium Hydroxide	1310-07-32	Sodium Hydroxide	2 mg/M3	Proprietary

## 4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

**Flash Point:** None

**Flammable Limits in Air % by volume:** Lower NA  
Upper NA

**Extinguishing Media:** Water spray, foam, carbon dioxide, dry chemical

**Special Fire Fighting Procedures:** Keep container cool with water-spray. Fire fighters should wear self-contained breathing apparatus.

**Unusual Fire & Explosion Hazards:** Dried residue can stimulate combustion of organic materials.

**Advanced Chemical Technology LLC**28766 Eagleton Street • Agoura, CA 91301 USA  
818 • 889 • 9346 Voice & Fax

MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4

PRODUCT NAME: ACT CS-440

MSDS NUMBER: 051701CS440

MSDS DATE: 05/17/01

PRODUCT CODE: Closed Loop Treatment

KEY NUMBER: CS-440

**5. HEALTH HAZARD DATA** See Addendum:

PAGE #:

**Threshold Limit Value:** None Established.**Effects of Overexposure:****Inhalation:** May cause irritation of upper respiratory passages**Skin Contact:** May cause irritation or redness on contact with skin. May cause more serious response if confined to the skin or skin is abraded. A single prolonged exposure is not likely to result in harmful quantities being absorbed.**Eye Contact:** May cause eye irritation possibly burns.**Ingestion:** Vapors, mists, and liquids are extremely corrosive to the mouth**Delayed Effects:** No specific information available**Medical Conditions Aggravated by Exposure** NE**6. FIRST AID MEASURES** See Addendum:

PAGE #:

**Inhalation:** If breathing stops, give artificial respiration. Call a physician immediately**Skin Contact:** Immediately remove clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes.**Eye Contact:** Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** Do not induce vomiting. If conscious, immediately give large quantities of water. Call a physician or the nearest Poison Control Center immediately.**NOTES TO PHYSICIAN:** None**7. REACTIVITY DATA** See Addendum:

PAGE #:

**Stability:** Stable**Incompatibility: (materials to avoid)** Strong oxidizers, metals, acids, alkalis, amines, halogens, halogen compounds, anhydrides, and aldehydes**Hazardous Combustion or Decomposition Products** Carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen. Leaves caustic residue.**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** Do not mix with other industrial chemicals**8. SPILL OR LEAK PROCEDURES** See Addendum:

PAGE #:

**Actions to take for Leaks & Spills** For small spills mop or wipe up. For large spills, contain by diking with soil or other absorbent material. Keep out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Dilute acid (preferably acetic acid) may be used to neutralize the final traces immediately after flushing. Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



**Advanced Chemical Technology LLC**

28766 Eagleton Street • Agoura, CA 91301 USA  
818 • 889 • 9346 Voice & Fax

MATERIAL SAFETY DATA SHEET PAGE #: 3 OF 4

PRODUCT NAME: ACT CS-440

MSDS NUMBER: 051701CS440

MSDS DATE: 05/17/01

PRODUCT CODE: Closed Loop Treatment

KEY NUMBER: CS-440

**9. SPECIAL PROTECTION INFORMATION**

See Addendum: Ref. PAGE:

Respiratory Protection: Not normally required.

Eye Protection: Chemical goggles and face shield

Skin Protection: Rubber Gloves

Other Clothing: Rubber Apron and Protective Clothes

Other Equipment: None

Engineering Controls: Normal

**10. HANDLING AND STORAGE**

See Addendum: Ref. PAGE:

Special Precautions: Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after use.

Other Precautions: An eyewash and safety shower should be nearby and ready for use

**11. REGULATORY INFORMATION**

See Addendum: Ref. PAGE: 3

Workplace Classification: NA

**12. TOXICOLOGICAL INFORMATION**

See Addendum: Ref. PAGE:

Acute Data: Sodium Nitrite is an animal mutagenic and tumorigenic agent.

Reproductive /  
Teratology Data NE

**13. ECOLOGICAL INFORMATION**

See Addendum: Ref. PAGE:

Fate in the Environment: NE

**14. DISPOSAL CONDITIONS**

See Addendum: Ref. PAGE:

Procedures: Dispose of all waste according to Federal, State, and Local regulations.

**15. TRANSPORTATION INFORMATION**

See Addendum: Ref. PAGE:

DOT Classification: Caustic liquid, N.O.S., 8,  
UN 1719, PG II

Warning Labels: Corrosive



**Advanced Chemical Technology LLC**

28766 Eagleton Street • Agoura, CA 91301 USA  
818 • 889 • 9346 Voice & Fax

**MATERIAL SAFETY DATA SHEET PAGE #: 4 OF 4**

**PRODUCT NAME:** ACT CS-440

**MSDS NUMBER:** 051701CS440

**MSDS DATE:** 05/17/01

**PRODUCT CODE:** Closed Loop Treatment

**KEY NUMBER:** CS-440

**ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3**

No RECRA Listed Hazardous Constituents

CERCLA Status: Reporting Quantity for sodium hydroxide & sodium nitrite: 1000# & 100# respectively.

SARA/Title III - Section 304 Emergency notification reporting: This product contains a Section 304 listed hazardous substance for emergency release notification. Section 302 Emergency Planning Notification/Threshold Planning Quantities: No (X) Yes ( )

SARA/Title III - Section 313 Toxic chemical release reporting. This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA Inventory Status - All chemical components are listed on TSCA inventory.

California Proposition 65 Status - This product does not contain chemicals currently on the California list of known carcinogens/and or reproductive toxins.

**ADDENDUM for Section -**

**ADDENDUM for Section -**