

CAPITAL WELD CLEANERS CHEMICAL AGENT  
Material Safety Data Sheet (MSDS)

SECTION 01 – IDENTIFICATION

SEPTEMBER 22, 2008

Capital Weld Cleaners  
720 N. Golden Key Street Suite B6  
Gilbert, AZ 85233  
480-967-0016

Capital Chemical Solution.  
To be used with a Capital Weld Cleaner

SECTION 02- HAZARDOUS INGREDIENTS

CHEMICAL NAMES	%	CAS NUMBERS	PEL		TLV	
			ppm	mg/M3	ppm	mg/M3
Corrosive liquid- H <sub>3</sub> PO <sub>4</sub>	18-30	[7664-38-2]	1	MG/M3	1	MG/M3
Water	70-82	[7732-18-5]	1	MG/M3	1	MG/M3

SECTION 03- CHEMICAL AND PHYSICAL PROPERTIES

**Physical State:** Liquid

**Appearance and Odor:** Clear, colorless, odorless,  
liquid at 50% and 75%, syrupy at 85%

**Vapor Pressure:** 5.65 mm Hg at 20 °C

**Vapor Density (Air=1):** ~3.4

**Formula Weight:** 98.0

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** >1

**Water Solubility:** Miscible

**Boiling Point:** 275 °F (135 °C) for 75-85%

**Freezing Point:** concentration dependent

**Viscosity:** 12 centistokes at 25 °C

**Refractive Index:** 1.43

**pH (0.1N solution):** 1.5

SECTION 04- HEALTH HAZARDS

**Stability:** Stable at room temperature.

**Absorbed through skin:** Yes

**Symptoms of overexposure:** Acute

**Inhalation:** Prolonged breathing of vapor may cause irritation.

**Eyes:** Causes burns.

**Skin:** Prolonged contact may cause irritation.

**Ingestion:** Vomiting, upset stomach.

**Breathing:** Mist can cause damage to nasal and respiratory passages.

**Effects of repeated exposure (chronic)** None currently known.

**Suspected cancer agents:** NTP, IARC, AND OSHA (FED) SOURCES CHECKED.

\*These chemical materials are subject to reporting requirements of section 313 of SARA 1986 and 440 CFR part 372.

**NFPA CODES:** Health-3 Flammability-0 Reactivity-0

**EMERGENCY AND FIRST AID PROCEDURES:**

**Inhalation:** Relocate to fresh air.

**Eyes:** Immediately flush eyes with water for at least 10-15 minutes. Seek medical attention.

**Skin:** Wash with plenty of water.

**Ingestion:** Drink large amounts of water. Do not induce vomiting. If vomiting occurs, place head below hips to avoid aspiration into lungs.

**Medical conditions aggravated by exposure:** Unknown.

(OVER)

Capital Chemical Solution, continued.

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## SECTION 05- FIRE AND EXPLOSION

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Flash Point: None

Auto-Ignition: None

Extinguishing Media: Use water or traditional means to extinguish.

Special Fire Fighting Procedures: Toxic vapors may form, wear a self-contained breathing apparatus (SCBA) with a full face piece.

Avoid skin and eye exposure to splashes and mist.

Unusual Fire and Explosion Hazards: Acid reacts with most metals to release Hydrogen gas which can form an explosive mixture with air. Cool fire exposed containers and sealed tanks with water spray to avoid rupture from heat generated pressure. Be aware of run-off.

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## SECTION 06- REACTIVITY DATA

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Stability: Stable

Conditions to avoid: None

Incompatibility (Material to avoid): Oxidizing metals.

Hazardous decomposition products: Carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Will not occur.

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## SECTION 07- SPILL OR LEAK PROCEDURES

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Steps to take in case material is released or spilled: Small spills, cover the contaminated surface with sodium bicarbonate and water solution.

Water disposal method: Dispose of in accordance with local applicable regulations.

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## SECTION 08- SPECIAL PROTECTION INFORMATION

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Respiratory protection: None required

Ventilation: Local exhaust: If applied by spray.

Mechanical: Room ventilation should be sufficient. May be increased if vapors are irritating.

Protective gloves: Chemical resistant.

Eye protection: Safety glasses or face shield.

Other protective equipment: Apron and boots if subject to splashing.

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## SECTION 09- SPECIAL PRECAUTIONS

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Precautions to be taken in handling and storage: Store chemicals in original containers at 50 to 90 F.

The information and recommendations of Capital Weld Cleaners contained in this MSDS meets the requirements of OSHA's Hazard Communication Standard 29CFR 1910.1200 and is based upon our testing and knowledge and are accurate.