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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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**1.1 Product identifier**

**Product name** CAPITAL WELD CLEANERS CITRIC ACID PASSIVATION CLEANER  
**Synonym(s)** CITRIC ACID WELD PASSIVATION CLEANER

**1.2 Uses and uses advised against**

**Use(s)** Cleaning and passivating metal and welded surfaces

**1.3 Details of the supplier of the product**

**Supplier name** CAPITAL WELD CLEANERS  
**Address** 425 E. Germann Rd Suite 102, Gilbert, AZ, 85297,  
**Telephone** UNITED STATES+1 480-967-0016  
**Email** [info@capitalweldcleaners.com](mailto:info@capitalweldcleaners.com)  
**Website** [www.capitalweldcleaners.com](http://www.capitalweldcleaners.com)

**1.4 Emergency telephone number(s)**

**Emergency (Chemtrec)** 1-800-424-9300 (US & Canada) +1 703-527-3887 (Outwith US)

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**2. HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS

**GHS classification(s)** Skin and eye irritatIrritation: Category 2, 2A

**2.2 Label elements**

**Signal word** Warning

**Pictogram(s)**

**Hazard statement(s)**

Warning

H303 May be harmful if swallowed  
H316 Causes mild skin irritation  
H319 Causes serious eye irritation.

**Prevention statement(s)**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash exposed skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

# PRODUCT NAME CAPITAL WELD CLEANER [Weld Cleaning (and passivating) Solution

## Response statement(s)

P301 + P330 + P331 + P312 IF SWALLOWED: Do NOT induce vomiting. Rise mouth. Call a poison control center or physician; if you are feeling unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention

P363 Wash contaminated clothing before reuse.

## Storage statement(s)

P402 + P410 Store in a cool place, out of direct sunlight. Keep container closed when not in use

## Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

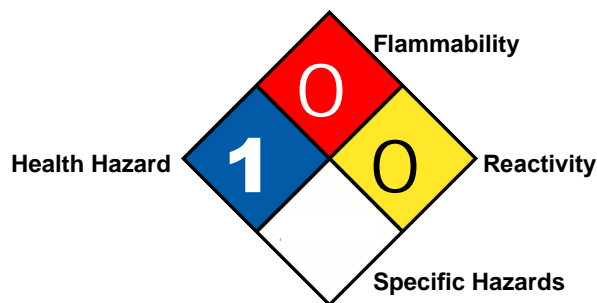
## 2.3 Other hazards

No information provided.

## HMIS

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

## NFPA



## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
CITRIC ACID	72-92-9	201-069-1	10%
WATER	7732-18-5	231-791-2	86%
Proprietary non-hazardous blend			4%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a physician, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Ingestion** For advice, contact the Poison Control Centre at 1-800-222-1222 or a physician (at once). If swallowed, do not induce vomiting.

**First aid facilities** Eye wash facilities and safety shower should be available.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes skin and serious eye irritation

**4.3 Immediate medical attention and special treatment needed**

No additional information available

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**5.2 Special hazards arising from the substance or mixture**

Non flammable. No additional information available

**5.3 Advice for firefighters**

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water spray or fog to cool intact containers and nearby storage areas.

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**6. ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

**6.3 Methods of cleaning up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

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**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating or drinking. Prohibit eating, drinking and smoking in contaminated areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

**7.3 Specific end use(s)**

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Citric Acid (77-92-9)
Not applicable
Water (7732-18-5)
Not applicable

#### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapor levels below the recommended exposure standard.

#### PPE

<b>Eye / Face</b>	Wear splash-proof goggles. When using large quantities or where heavy contamination is likely, wear a faceshield.
<b>Hands</b>	Wear PVC or nitrile gloves.
<b>Body</b>	Wear a lab coat. When using large quantities or where heavy contamination is likely, wear rubber boots and a PVC apron.
<b>Respiratory</b>	Respiratory protection not required in normal conditions



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	CLEAR COLOURLESS LIQUID OR CLEAR ORANGE LIQUID
<b>Odour</b>	SLIGHT ACRID
<b>Flammability</b>	NON FLAMMABLE
<b>Flash point</b>	NOT RELEVANT
<b>Boiling point</b>	NOT AVAILABLE
<b>Melting point</b>	NOT AVAILABLE
<b>Evaporation rate</b>	NOT AVAILABLE
<b>pH</b>	2
<b>Vapour density</b>	NOT AVAILABLE
<b>Specific gravity</b>	1.1
<b>Solubility (water)</b>	SOLUBLE
<b>Vapour pressure</b>	NOT AVAILABLE
<b>Upper explosion limit</b>	NOT AVAILABLE
<b>Lower explosion limit</b>	NOT AVAILABLE
<b>Partition coefficient</b>	NOT AVAILABLE
<b>Autoignition temperature</b>	NOT AVAILABLE
<b>Decomposition temperature</b>	NOT AVAILABLE
<b>Viscosity</b>	NOT AVAILABLE
<b>Explosive properties</b>	NOT AVAILABLE
<b>Oxidising properties</b>	NOT AVAILABLE
<b>Odour threshold</b>	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

# PRODUCT NAME CAPITAL WELD CLEANERS CITRIC ACID PASSIVATION CLEANER

## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Stable under recommended conditions of storage.

## 10.3 Possibility of hazardous reactions

Not expected to occur.

## 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5 Incompatible materials

Strong oxidizers. Strong bases.

## 10.6 Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects Acute toxicity

**Eye** Irritant. Contact may result in serious eye irritation.

**Inhalation** Not classified

**Skin** Not Classified

<b>Toxicity data</b>	CITRIC ACID (77-92-9)	
	LD50 (ingestion, rat)	5400 mg/kg (rat)
	ATE US (oral)	5400 mg/kg body weight
	WATER (7732-18-5)	
	LD50 (ingestion, rat)	>90000 mg/kg (rat)
	ATE US (oral)	90000 mg/kg body weight

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## 12. ECOLOGICAL INFORMATION

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### 12.1 Toxicity

Citric acid: LC50 fish 1: 440mg/l

EC50 Daphnia 1: 1534 mg/l

### 12.2 Persistence and degradability

Not established.

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate.

### 12.4 Mobility in soil

No additional information available

### 12.5 Results of PBT and vPvB assessment

No information provided.

### 12.6 Other adverse effects

Avoid release to the environment

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Waste disposal** Disposal requirements are dependent on the hazard classification of the waste produced, as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. The disposal of this material must be conducted in compliance with the relevant parts of 40 CFR 261. Check state and local regulation for any additional requirements, as these may be more restrictive than federal laws and regulation.

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

Department of Transportation (DOT)      Transport by sea      Air Transport

**NOT REGULATED FOR TRANSPORT**

### 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal regulations

Ingredient	CAS Number	Sara 311	Sara 312
CITRIC ACID 10% w/v	77-92-9		Health hazard - Skin corrosion or Irritation

Inventory listing(s) UNITED STATES: TSCA (US Toxic Substances Control Act)  
All components are listed on the TSCA inventory, or are exempt.

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## 16. OTHER INFORMATION

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### Additional Information

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PRODUCT NAME CAPITAL WELD CLEANERS CITRIC ACID PASSIVATION CLEANER**

<b>Abbreviations</b>	ACGIH	American Conference of Governmental Industrial Hygienists
	CAA	Clean Air Act
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	EPCRA	Emergency Planning and Community Right-to-Know Act
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m <sup>3</sup>	Milligrams per Cubic Metre
	NTP	U.S. National Toxicology Program
	OEL	Occupational Exposure Limit
	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	RCRA	Resource Conservation and Recovery Act
	RQ	Reportable Quantity measured in pounds (304, CERCLA)
	SARA	Superfund Amendments and Reauthorization Act
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity measured in pounds (302)
	TQ	Threshold Quantity measured in pounds (CAA)
	TWA	Time Weighted Average

<b>Summary Of Codes</b>	!	Member of the dioxin and dioxin-like compounds category.
	#	Member of diisocyanate category.
	*	RCRA carbamate waste: statutory one-pound RQ applies until RQs are adjusted.
	**	This chemical was identified from a Premanufacture Review Notice (PMN) submitted to EPA. The submitter has claimed certain information on the submission to be confidential, including specific chemical identity.
	***	Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.
	+	Member of PAC category.
	c	Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
	RQ	Reportable Quantity measured in pounds (304, CERCLA)
	s	Indicates that this chemical is currently under a administrative stay of the EPCRA section 313 reporting requirements, therefore, no Toxics Release Inventory reports are required until the stay is removed.
	TPQ	Threshold Planning Quantity measured in pounds (302)
	TQ	Threshold Quantity measured in pounds (CAA)
	X	Indicates that this is a second name for a chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.
	^	Reporting threshold has changed since November 1998.



**PRODUCT NAME CAPITAL WELD CLEANERS CITRIC ACID PASSIVATION CLEANER**

**Revision History**

Revision	Description
2.1	Standard SDS Review
2.0	Standard SDS Review
1.0	Initial SDS Creation
0.1	Draft.

**Report status**

This document has been compiled on behalf of the manufacturer of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided by the manufacturer, and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

Information in this SDS is accurate and up-to-date, it does not provide any warranty as to accuracy or completeness. This SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Capital Weld Cleaners assumes no liability resulting from the use of this product.

The user must determine suitability of this information for their application.

**Prepared by**

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Prepared in accordance to OSHA Hazard Communication standard, 29 CFR 1920.1200.

**Revision:** 2.1

**SDS date:** 17 April 2024

**[ End of SDS ]**